

## CP/M – MAPPEN

Du sidder nu med Z80 BrugerGruppens CP/M-Mappe i hånden. Den er en fortegnelse over indholdet af hvert volumen (diskette) i CP/M-biblioteket. Programmerne stammer fra de amerikanske brugergrupper CPMUG, SIG/M og CUG ("C"-brugergruppe). Vi har bibeholdt deres nummerering af volumerne og tilføjet vores egne volumener, som vi kalder OPMZ80. Forrest i mappen sidder en liste med en kort beskrivelse af hvert volumen.

Ønsker du at bestille en eller flere af de beskrevne volumener, skal du sende 1 formatteret diskette for hvert volumen, "dog 2 pr. volumen ved disketteformater mindre end, 241 Kbytes" til:

Asbjørn Lind  
Sidevolden 23  
2730 Herlev

Du skal pakke disketterne godt ind, da de bliver sendt tilbage i den samme emballage, som du sender dem i. Desuden skal du vedlægge returporto. Husk at angive tydeligt hvilke volumener du ønsker og om det er CPMUG, SIG/M, CUG eller OPMZ80 og hvilket disketteformat du kører med, samt selvfølgelig dit medlemsnummer, navn og adresse.

Programmerne koster 30.- kroner pr. volumen, som du skal betale med girokortet, der følger med disketterne.

### DISKETTEFORMATER:

I øjeblikket "Januar 1985" kan vi overspille volumener til disketter, der er formatteret på en af disse maskiner:

ATEC-80, BUTLER, COMET (40 spor SSDD), CROMEMCO, NCR DECISION MATE V, GALAXY (80 & 40 spor SS & DD), IBM-PC (tekst filer), NASCOM (35 spor 320k/d, 40 spor 390k/d, 80 spor 790k/d), NEWBRAIN (80 spor 788k/d), IBM 8" (3740), JAMES (200, 400, 800k/d), MIMI 801 (35 spor 320k/d), MAP-80, OSBORNE, RAIR, RC-702 (36 spor 288k/d), RML, SUPERBRAIN, XEROX 820, METRIC JET-80, TMK 320 P, P2000, RC-702 8" (1.1 Mbytes), KYPRO II, METRIC 8 (8" 970k/d), LYNX 128.

Ud over 8 tommer og 96/48 Tpi kan vi også klare formater, der er skrevet med 100 Tpi ( 77 spor 5.25 tomme).

Det er også muligt af få flyttet egne programmer fra et format til et andet, men det kræver, at modtagerskiven også er formatteret. Prisen er også her kr. 30.- pr. disketteoverflytning.

Vend.

Er du i tvivl m.h.t. dit diskformat har du en af to muligheder: 1) Ring til Asbjørn Lind (02 91 71 82) og spørg om dit format ligger grydeklart, eller 2) indsend en prøvediskette hvor så mange oplysninger som muligt er medsendt. Hermed menes disse tre ting: 1) Resultatet af en STAT DSK: , 2) Diskparameterhovedet og 3) en nyformatteret diskette med 2000 tal i rækkefølge indspillet som en sekventiel fil. Det første fås hvis du kører STAT-programmet med option DSK:. Det andet får du, hvis du går ind med DDT, SID, ZSID eller DEBUG og laver et program fra 100H ved hjælp af kommandoen S100: 0E 1F CD 05 00 00 00 00 00 00. Herefter køres programmet med breakpoint 106. F.eks. G0100,0106. Derefter aflæses HL-registrets indhold og dette bruges til displaykommandoen. Hvis HL f.eks. indeholdt F245 gives kommandoen: D F245. Nu noterer du de første 15 bytes ned – det er diskparameterhovedet! De 2000 tal i rækkefølge kan laves enten i BASIC, COMAL eller PASCAL – det er underordnet – bare de er i rækkefølge.

### ALMENT OM CP/M BIBLIOTEKET.

Man skal lægge mærke til, at der på næsten alle volumenerne findes en fil, der kaldes ABSTRACT. Denne fil fortæller, hvordan programmerne er bygget op, hvordan de bruges eller det kan være en anmeldelse af samme. Denne form for overordnet omtale er næsten alle disketterne forsynet med. Derudover findes der til de mere specielle programmer direkte manualer, der oftes benævnes xxxx.DOC. Dog skal man være opmærksom på, at hvis det er en opdateret version, man bestiller, findes .DOC-filen som regel på den første version, altså på en helt anden skive. Ang. priser, så ville det koste dig 18\$ pr. volumen, hvis købte det i USA. Programmerne i biblioteket er offentlige, men må ikke gøres til genstand for handel og fortjeneste; der er stadig copyright på dem. Forhåbentlig virker vores pris ikke afskrækkende, så håber ikke at du henter volumener fra andre, der allerede har købt dem hos os. Herved undergraver du økonomien i foretaget.

I CP/M-biblioteket findes kun offentlig tilgængeligt software. D.v.s. software, der kan køre selvstændigt eller som kræver en fortolker eller compiler for at kunne køre. Disse fortolkere og compilere (f.eks. MBASIC, O-BASIC-2, COMPAS m.fl.) findes ikke i biblioteket ligesom selve CP/M-operativsystemet ikke findes der, men de må købes hos de forskellige softwarehuse.

Der er dog en fuldvoksen PASCAL-compiler i biblioteket, nemlig JRT-PASCAL ver.3.0, som findes på volumen CPMZ80 nr. 5. Til denne compiler hører der en tyk manual, som kan købes, hos forretningsføreren, pænt indbundet for 80.- kr.

God Fornøjelse  
*Rene' Hansen.*

## Indhold

### CPMUG

| Vol.  | Beskrivelse.                                                                           |
|-------|----------------------------------------------------------------------------------------|
| 7     | Pilot programmeringssprog                                                              |
| 9     | Bogholderiprogram skrevet i MBASIC                                                     |
| 10    | Sourcekode til Lawrence Livermore Basic med .COM fil                                   |
| 11    | Tiny diskbasic/5 med sourcekode                                                        |
| 12    | Opdateret PILOT udgave (forbedret fra CPMUG nr. 7), patched for CP/M                   |
| 16    | Diverse utilitiprogrammer. Assembler og programmeringssproget FOCAL.                   |
| 23    | STOIC. (Stack Orienteret Interaktiv Compiler) minder om FORTH                          |
| 25    | Forskellige assembler prg. bl.a. masterdiskkatalog m. doc.                             |
| 26    | Microsoft basic og fortran spilleprogrammer og utilities                               |
| 27    | Flere Microsoft basic spilleprogrammer.                                                |
| 28    | Basic-E programmer, et algolignende program med eksempler                              |
| 29-30 | E-Basic med floating point matematik                                                   |
| 31-32 | Source, manual og .COM fil til Tarbell Basic                                           |
| 33    | Flyvetræning med radio og eftersøgning med fly. Træningsspil                           |
| 34    | SAM76. Et macro/tekst processprog med diverse utility                                  |
| 35    | Felix - Grafisk bevægelsessystem med pseudo assembler                                  |
| 36    | Assembler, editor og tekstprocessor tilknyttede programmer                             |
| 37    | OBASIC-2 prg. aritmetik, Craps, lager m.m.                                             |
| 38    | CP/M programmer bl.a. et relokatprg. for assemblertekst                                |
| 40    | Disk katalog prg., modems, utilities                                                   |
| 41    | Ham radio prg., skak, fortran kurvefit                                                 |
| 42    | Disassembler, Diablo driver, klokrutiner, m.m.                                         |
| 43    | OBASIC-2 Account payable og account receivable forretningsprg.                         |
| 44    | OBASIC-2 General leder prg. Forretningsprg.                                            |
| 45    | OBASIC-2 Payroll og Cost accounting forretningsprg.                                    |
| 46    | CP/M utilities. bl.a. Map af CP/M                                                      |
| 47    | CP/M utilities. bl.a. MODEM7 (kan også bruges uden modem)                              |
| 48    | Almen 'O' disk i BDS O skrevet af Leor Zolman                                          |
| 49    | Fortran rutiner, ODOS rutiner til CP/M                                                 |
| 50    | Bob Van Valzah: Pascal Pascal Compiler.                                                |
| 51    | Stage2 Macro Processor                                                                 |
| 52    | Copyfast, batch/varbatch                                                               |
| 53    | Adventure i BDS-O                                                                      |
| 54    | Spilleprogrammer i X-Basic (flere kan bruge Mbasic uden omskrivning)                   |
| 55-64 | se SIG/M 1-10                                                                          |
| 65-77 | se SIG/M 13-25                                                                         |
| 78    | Utiliti disk. Hurtig submit, single copy, list med sideangivelse m.m.                  |
| 79    | Modem og SModem prg. 'MAC' assembler kræves                                            |
| 80    | Struk. basicprg. Maillist, Spelling, Statistik m.m.                                    |
| 81    | Subersubmit, editor, tekstprocessor utilitidisk                                        |
| 82    | Biosrutiner til North Star                                                             |
| 83    | MuMat/MuSimp, OBASIC kompleks aritm., CP/M til fortran                                 |
| 84    | Modem, Xmodem                                                                          |
| 85    | Bye 7.9 remote user, sq/usq pakke/udpakning af tekstfiler                              |
| 86-90 | BusinessMaster II. Et prof. udviklet prgsystem for erhvervsdrivende skrevet i OBASIC-2 |

## Indhold

### SIG/M

| Vol.  | Beskrivelse.                                                                       |
|-------|------------------------------------------------------------------------------------|
| 1     | Adventure                                                                          |
| 2     | Adventure                                                                          |
| 3     | Udvidet Adventure                                                                  |
| 4     | Forskellige OP/M prg. (XDIR)                                                       |
| 5     | Forskellige test: OPU, memory og disk                                              |
| 6     | 6502 simulator                                                                     |
| 7     | File transfer - OP/M utiliti disk                                                  |
| 8     | Prg. i forbindelse med Pascal og kommunikation                                     |
| 9     | Diverse OP/M prg. (dir med mulighed for diskskrivning)                             |
| 10    | Spil i Mbasic. Disassembler, ODOS                                                  |
| 13    | Fig.-FORTH 1.1 super dir.                                                          |
| 14    | Hjælpesystem til hjælpetekster til flere sprog og OP/M                             |
| 15    | Indhold af OPMUG 1-40                                                              |
| 16    | Forskellige prg. til OP/M, DU, multilist                                           |
| 17    | Sort, utiliti, file transfer OP/M til OP/M                                         |
| 18    | Master disk katalog til OP/M 2.xxx                                                 |
| 19-25 | Pascal User Group vol. 1-7. Herunder et komplet databasesystem                     |
| 26    | Games. Mail label (databaseprg.). Ham notebook til radioamatører                   |
| 29    | Reference til tidligere frigivne volumen med *.DOC, READ.ME og ABSTRACT.*          |
| 30    | Som ovenstående                                                                    |
| 40    | Diverse system support. Menu driver. Mbasic variable map. MDS FDO emulator         |
| 41    | Cromemco system support. Fast copy                                                 |
| 42    | Harddisk, file utiliti, Wordmaster notes                                           |
| 43    | 8080 tincmp Compiler, Pidgin, CP/M-86 bios support                                 |
| 48    | Remote, pack/unpack, kommunikation                                                 |
| 49    | Account payable/receivable system, master DataBase System                          |
| 50    | Hard disk, voice synthese                                                          |
| 52    | Catalog system, un Protect Mbasic programmer.                                      |
| 54    | Z80 erstatning af OOP                                                              |
| 60    | SQ/USQ, remote, xdir, multiple file list prg.                                      |
| 76    | Screen editor i 'O'                                                                |
| 77    | ZOPR - erstatning for OOP                                                          |
| 78    | Diverse Benchmark i forskellige sprog.                                             |
| 79    | PL/I-80M user group bibliotek                                                      |
| 80-82 | Uddrag af Pascal User Group nr. 16-18                                              |
| 83    | Skrivetræning i basic, Contex editor                                               |
| 84    | Updated ver. Find, Help og Tag                                                     |
| 85    | Pascal (19) Binært træ, tekstformatter                                             |
| 86    | DU, sortdir m.m.                                                                   |
| 87    | The FED (TM) Økonomiske model, BDSC katalog                                        |
| 88-90 | Syalib                                                                             |
| 91    | DU, Disassembler, Xlate2 (8080 -> Z80)                                             |
| 92    | 68000 cross assembler, Mini Ada                                                    |
| 93    | Modem, Telefontavle                                                                |
| 94    | Forskellige prg. i PASCAL. Indholdsforteg.prg., menu file til OP/M prg., Dir scan. |

# Indhold

## SIG/M

| Vol.    | Beskrivelse.                                                                             |
|---------|------------------------------------------------------------------------------------------|
| 95      | Pascal (21). Z80 assembler, TDL-disassembler                                             |
| 96      | CP/M-86 utiliti prg.                                                                     |
| 97      | Pascal (22) Combine forener flere små filer i en stor                                    |
| 98-107  | ZOPR2 erstatning for COP og SYSLIB, der ikke kan undværes af seriøse assem. prgms.       |
| 108     | Upgrades til ovennævnte                                                                  |
| 109     | Wordprocessor 'The Secretary'                                                            |
| 110     | Dbase og super Calc programmer                                                           |
| 111     | Hard disk utility                                                                        |
| 112     | SIGNON/RBBS programmer                                                                   |
| 113     | Kermit - modem prg.                                                                      |
| 114     | PISTOL Stack orienteret language                                                         |
| 115     | Utility: Compare, Delete prg. MuMath, super calc matrix                                  |
| 116     | Forth for Apple og andre maskiner                                                        |
| 117     | Macro toolkit modems overlay                                                             |
| 118     | XLISP, et eksperimentalt sprog                                                           |
| 119     | Anden generation af BYE i LBR format                                                     |
| 120     | Modem901 og Musikcomposer til AY38910                                                    |
| 122     | ZOPR2 til 8080 CPU (released 29.6.83)                                                    |
| 123     | Forskellige rutiner til LBR. (bl.a. 6502 assembler, 16 bit matpack for 6805 8048 og Z80. |
| 124-125 | ZOPR2 og SYSLIB update (released 11.7.83)                                                |
| 126     | ROFF4 v1.50 Tekst Formatter by Ernest E. Bergman                                         |
| 129     | DataBase II order and inventory program, JRT Pascal User Group vol. 1                    |
| 131     | ABSTRACTS fra Pascal Z User Group vol. 23                                                |
| 132     | Pascal Z User Group Vol. 24                                                              |
| 133     | Pascal Z User Group Vol. 25                                                              |
| 134     | Pascal Z User Group Vol. 26                                                              |
| 135     | SoftWare Tools of Australia - Vol. 17, OP/M utilities and misc. prg.                     |
| 139     | Modem update - Modem 712                                                                 |
| 140     | Cross Assemblers and misc. Utilities. SoftWare Tools of Australia.                       |
| 142     | Games from SoftWare Tools of Australia.                                                  |
| 143     | Packet Radio, Printer Utilities, etc. SoftWare Tools of Australia.                       |
| 144     | Miscellaneous Programs, SoftWare Tools of Australia.                                     |
| 145     | VFILER - en skærm orinteret fil manipulation utility                                     |
| 148     | Pascal Z User Group Vol. 27                                                              |
| 152     | Disk Drive Tester, diverse updates.                                                      |
| 154     | Forth-83                                                                                 |
| 155     | DataBase II (TM) Programmer og info.                                                     |
| 156     | Diverse Z80 og 8080 prg.                                                                 |
| 160     | Tids stempel dine filer m.m. af A.I. Larky                                               |
| 162     | Concurrent Pascal-S Compiler, PL/0 Compiler.                                             |

## Indhold

### CPMZ80

| Vol. | Beskrivelse.                                                         |
|------|----------------------------------------------------------------------|
| 1    | Assembler, disassembler, formatteringsprg., disk og filzap           |
| 2    | Indholdsfortegnelse over alle SIG/M disketter                        |
| 3    | Indholdsfortegnelse over OPMUG, OPMZ80, OUG diske                    |
| 4    | Editor (IVO comfil og O-source), debug og div. comalprg.             |
| 5    | JRT Pascal compiler v. 3.00. Manual kan købes hos forretningsføreren |
| 6    | Utilityprg. Disassembler, file compare, 4k teksteditor og m.m.       |
| 7    | TI 9995 cross-assembler, div. 'O' prg., UK User Group Vol. 14        |
| 8    | Small - O Compiler, Telex communication prg. UK User Group Vol. 15   |
| 9    | OP/M 3 utilities, Auto execute prg., m.m. UK User Group Vol. 16      |
| 10   | Magazine Index 1978-1983. UK User Group Vol. 17                      |
| 11   | Numerical programs from Dutch British Micro Mimi 80x User Group      |

## Indhold

### CUG

| Vol.            | Beskrivelse.                                                     |
|-----------------|------------------------------------------------------------------|
| Just like mem's | Diverse programmer i 'O'                                         |
| Ream editor     | Editor i C                                                       |
| Small O         | Small O med div. hjælpeprg. og demo.                             |
| Function III    | Logaritme, trig. og float rutiner til BDS-O                      |
| Games I         | Life, grafik, road, tic-tac, krydsord                            |
| Utility I       | Sort. directory, compare, sorteringsrutine, ord og ASCII tæller  |
| Utility II      | Concat filer, eras, line printer formatter, fra USOD til CP/M    |
| Function II     | Diverse funktioner til BDS-O. FIFO, assembler source til I/O     |
| Function I      | OIO 'most universal', trig. funk., ext. til float pack           |
| Utility III     | Binær til hex conv., modemprg., display diskblokke               |
| PISTOL          | Pistol v. 2.00 med alle source i BDS-O kode                      |
| Utility IV      | 16 bits regning. ORO beregning, labels, MX80/100 drivere, SQ/USQ |
| Compiler utili. | META4 compiler (også med .COM), ny linker overlay, Krydsref.prg. |
| Miscellany I    | Random, betinget udførelse, dir-list, 'SHELL' til CP/M. m.m.     |

## VOLUME 7

## PILOT - PROGRAMMED INQUIRY, LEARNING AND TEACHING

NOTE THAT AN IMPROVED IMPLEMENTATION OF THIS VERSION AND A NEW  
Z-80 SIMPLER PILOT ARE NOW OFFERED IN VOLUME 12

| NUMBER | SIZE | NAME        | COMMENTS                                         |
|--------|------|-------------|--------------------------------------------------|
|        |      | CATALOG.7   | CONTENTS OF CP/M VOL 7                           |
|        |      | VOLUME7.DOC | COMMENTS                                         |
| 7.1    | 6K   | PILOT       | LOADED MDS OBJECT                                |
| 7.2    | 66K  | PILOT.ASM   | PILOT SOURCE                                     |
| 7.3    | 135K | PILOT.LST   | MDS ASSEMBLER LISTING WITH<br>X-REFERENCE TABLES |
| 7.4    | 6K   | PILOT.OBJ   | RELOCATABLE MDS OBJECT                           |

## VOLUME 9

## GENERAL LEDGER PROGRAM BY BUD SHAMBURGER

THESE TWELVE PROGRAMS WERE PUBLISHED IN MACHINE READABLE FORM AS PAGE 32A OF INTERFACE AGE MAGAZINE, VOLUME 2, ISSUE 10, DATED SEPTEMBER 1977.

THE SYSTEM WAS DESCRIBED IN A SERIES OF THREE ARTICLES IN THE ISSUES OF SEPTEMBER THROUGH NOVEMBER. IN THE FINAL ISSUE, FULL TYPED LISTINGS WERE GIVEN FOR THE TWELVE PROGRAMS PLUS TWO OTHERS, "CHART" AND "GENPRO", NEITHER OF WHICH WERE ON THE "FLOPPY ROM".

THE VERSIONS HERE ARE IN FULL ASCII. THE LANGUAGE IS MITS 12K DISK BASIC VER. 4.0. IN CERTAIN CASES, THE COMMENT PREAMBLES WERE REMOVED FROM THE HEADS OF THE FILES, TO PERMIT LOADING IN THE SYSTEM USED TO RECOVER THE CODE.

| NUMBER | SIZE | NAME       | COMMENTS                      |
|--------|------|------------|-------------------------------|
|        | 1K   | CATALOG.9  |                               |
| 9.1    | 2K   | COPCON.ASC | SEE MAGAZINE REFERENCES ABOVE |
| 9.2    | 2K   | COPRAN.ASC | SEE MAGAZINE REFERENCES ABOVE |
| 9.3    | 3K   | GETPUT.ASC | SEE MAGAZINE REFERENCES ABOVE |
| 9.4    | 7K   | GL1.ASC    | SEE MAGAZINE REFERENCES ABOVE |
| 9.5    | 16K  | GL2.ASC    | SEE MAGAZINE REFERENCES ABOVE |
| 9.6    | 4K   | GL3.ASC    | SEE MAGAZINE REFERENCES ABOVE |
| 9.7    | 4K   | GL4.ASC    | SEE MAGAZINE REFERENCES ABOVE |
| 9.8    | 6K   | GL5.ASC    | SEE MAGAZINE REFERENCES ABOVE |
| 9.9    | 7K   | GL6.ASC    | SEE MAGAZINE REFERENCES ABOVE |
| 9.10   | 13K  | GL7.ASC    | SEE MAGAZINE REFERENCES ABOVE |
| 9.11   | 3K   | GLMENU.ASC | SEE MAGAZINE REFERENCES ABOVE |
| 9.12   | 7K   | SORTGL.ASC | SEE MAGAZINE REFERENCES ABOVE |

## VOLUME 10

LAWRENCE LIVERMORE BASIC INTERFACED TO CP/M  
WITH DISK LOAD OF PROGRAMS

THESE PROGRAMS REPLACE THE VERSIONS ISSUED ON  
CP/M USERS' GROUP VOLUME 2

| NUMBER | SIZE | NAME          | COMMENTS                                                                                                                    |
|--------|------|---------------|-----------------------------------------------------------------------------------------------------------------------------|
|        | 1K   | CATALOG.10    | CONTENTS OF CP/M GROUP VOL 10                                                                                               |
|        | 4K   | LLL BASIC.DOC | COMMENTS ON PROGRAMS IN VOLUME 10                                                                                           |
| 10.1   | 85K  | LLL BASIC.ASM | SEE LLL BASIC.DOC                                                                                                           |
| 10.2   | 7K   | LLL BASIC.COM | TOTAL ASSEMBLED PACKAGE                                                                                                     |
| 10.3   | 61K  | LLLFP.ASM     | SEE LLL BASIC.DOC                                                                                                           |
| 10.4   | 5K   | LLL MON.ASM   | SEE LLL BASIC.DOC                                                                                                           |
| 10.5   | 1K   | TEST.FIL      | TEST PROGRAM. TO RUN TYPE<br>"LLL BASIC TEST.FIL" AND AFTER<br>"READY" PROMPT, TYPE "PTAPE"<br>THEN YOU MAY "LIST" OR "RUN" |

## VOLUME 11

## DISK TINIBASIC AND DISK PROCESSOR TECHNOLOGY BASIC/5

| NUMBER | SIZE | NAME         | COMMENTS                                                    |
|--------|------|--------------|-------------------------------------------------------------|
|        |      | CATALOG.11   | CONTENTS OF CP/M VOLUME 11                                  |
|        |      | VOLUME11.DOC | COMMENTS ON CONTENTS                                        |
| 11.1   | 76K  | BASIC/5.ASM  | PRO TECH 5K DISKIFIED BASIC                                 |
| 11.2   | 8K   | BASIC/5.COM  | 5K BASIC IN 8K (SIGN OF THE TIMES)                          |
| 11.3   | 7K   | BASIC/5.DOC  | CP/M IMPLEMENTATION AND OTHER<br>MAJOR EXTENSIONS EXPLAINED |
| 11.4   | 6K   | STARTREK.TBI | WAS ALSO #2.7 SEE VOLUME11.DOC                              |
| 11.5   | 1K   | TINICOPY.SUB | SOMEONE USES THE SUBMIT PROGRAM??                           |
| 11.6   | 62K  | TINIDISK.ASM | SOURCE OF TINIDISK                                          |
| 11.7   | 3K   | TINIDISK.COM | WAS ALSO #2.8                                               |
| 11.8   | 13K  | TINIDISK.DOC | WAS ALSO #2.9                                               |

## VOLUME 12

## PILOT INTERPRETERS PATCHED FOR CP/M

| NUMBER | SIZE | NAME       | COMMENTS                                                                                                                |
|--------|------|------------|-------------------------------------------------------------------------------------------------------------------------|
|        |      | CATALOG.12 | CONTENTS OF CP/M VOL 12                                                                                                 |
| 12.1   | 1K   | GOLDI.PLT  | SOURCE PROGRAM FOR ZPILOT                                                                                               |
| 12.2   | 2K   | HIPLOT.PLT | SOURCE PROGRAM FOR ZPILOT                                                                                               |
| 12.3   | 67K  | PILOT.ASM  | PATCHED VERSION OF #7.2 SEE<br>PILOT.DOC                                                                                |
| 12.4   | 5K   | PILOT.COM  | SEE PILOT.DOC                                                                                                           |
| 12.5   | 2K   | PILOT.DOC  | DESCRIPTION OF CP/M IMPLEMENTATION<br>OF PILOT                                                                          |
| 12.6   | 1K   | PILOT.TST  | SOURCE PROGRAM FOR PILOT. TYPE<br>"PILOT PILOT.TST" TO RUN                                                              |
| 12.7   | 5K   | PMON.ASM   | CP/M INTERFACE USED IN PILOT.COM                                                                                        |
| 12.8   | 1K   | WIERD      | WIERD.PLT RE-CODED FOR THE PILOT.COM<br>SYNTAX FOR COMPARISON PURPOSES ONLY.<br>ÆWONDER WHO CAN'T SPELL STRAWBERRIES??? |
| 12.9   | 1K   | WIERD.PLT  | SOURCE PROGRAM FOR ZPILOT                                                                                               |
| 12.10  | 1K   | ZPILOT.COM | OBJECT OF ZPILOT.Z80                                                                                                    |
| 12.11  | 7K   | ZPILOT.Z80 | ZILOG MNEMONIC SOURCE OF A PILOT<br>INTERPRETER. NO DOC!!                                                               |

## VOLUME 16

## ASSEMBLERS, OTHER UTILITIES AND FOCAL

| NUMBER | SIZE | NAME                                   | COMMENTS                                                                                                                                                                                                                                                                               |
|--------|------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.1   | 9K   | CATALOG.16<br>VOLUME16.DOC<br>ASMX.COM | CONTENTS OF CP/M GROUP VOL 16<br>COMMENTS ON CERTAIN PROGRAMS<br>ASSEMBLER WHICH RECOGNIZES Z-80 OPS<br>SEE VOL.DOC #CAREFUL: WITH CORRECT<br>SYNTAX (ASMX FILENAME.AAA) THIS DOES<br>WORK. WITH FAULTY SYNTAX THE PROGRAM<br>TAKES REVENGE ON THE DISK DIRECTORY.A<br>RUNS OK ON 8080 |
| 16.2   | 12K  | COPYDSK.ASM                            | DISK COPY PROGRAM. SEE VOL.DOC                                                                                                                                                                                                                                                         |
| 16.3   | 13K  | COPYDSK.MAC                            | AS 16.2 FOR TDL ASSEMBLER                                                                                                                                                                                                                                                              |
| 16.4   | 7K   | CPMUTIL.ASM                            | CP/M SUBROUTINES USEFUL GENERALLY AND<br>EMPLOYED AS PART OF Z80ASM 16.17                                                                                                                                                                                                              |
| 16.5   | 3K   | EDIT.COM                               | INTEL-LIKE EDITOR. DOES L F B AND -B<br>MUCH FASTER THAN ED.COM. SEE VOL.DOC                                                                                                                                                                                                           |
| 16.6   | 8K   | EDUCATOR.ASM                           | 8080 INSTRUCTION SET TUTOR FROM BYTE<br>OF JULY 1976                                                                                                                                                                                                                                   |
| 16.7   | 57K  | FOCAL.ASM                              | FOCAL LANGUAGE INTERPRETER. SEE VOL.DOC                                                                                                                                                                                                                                                |
| 16.8   | 8K   | MACASM.COM                             | MACRO ASSEMBLER. SEE VOL.DOC                                                                                                                                                                                                                                                           |
| 16.9   | 2K   | MOVDOWN.ASM                            | PROGRAM TO LOAD FILE WHICH OPERATES BELOW<br>100H                                                                                                                                                                                                                                      |
| 16.10  | 2K   | SEEK.ASM                               | SET DISK TRACK FROM FRONT PANEL DURING<br>ALIGNMENT                                                                                                                                                                                                                                    |
| 16.11  | 9K   | SPAT1.ASM                              | RE-WRITE OF 1.29 TO GENERALIZE CONSOLE FROM<br>ORIGINAL VDM DEPENDANCY                                                                                                                                                                                                                 |
| 16.12  | 2K   | TASMIO.DOC                             | DOC FOR TASMIO PATCH TO PUT TDL TAPE ASSEMBLER<br>UP ON CP/M                                                                                                                                                                                                                           |
| 16.13  | 3K   | TASMIO.HEX                             | SEE TASMIO.DOC                                                                                                                                                                                                                                                                         |
| 16.14  | 18K  | TASMIO.MAC                             | SEE TASMIO.DOC                                                                                                                                                                                                                                                                         |
| 16.15  | 3K   | TEST1A.ASM                             | SUCCESSFUL TEST FOR Z80ASM 16.17                                                                                                                                                                                                                                                       |
| 16.16  | 1K   | TEST2.ASM                              | UNSUCCESSFUL TEST FOR Z80ASM 16.17                                                                                                                                                                                                                                                     |
| 16.17  | 9K   | Z80ASM.COM                             | ZILOG MNEMONIC ASSEMBLER. RUNS ON 8080. SEE<br>Z80DOC.DOC 16.18                                                                                                                                                                                                                        |
| 16.18  | 4K   | Z80DOC.DOC                             | DOC FOR 16.17                                                                                                                                                                                                                                                                          |
| 16.19  | 28K  | Z80MAIN.ASM                            | SEE 16.17                                                                                                                                                                                                                                                                              |
| 16.20  | 4K   | Z800PCDS.ASM                           | SEE 16.17                                                                                                                                                                                                                                                                              |
| 16.21  | 11K  | Z80SUBS.ASM                            | SEE 16.17                                                                                                                                                                                                                                                                              |

## VOLUME 23

## STOIC (STACK ORIENTED INTERACTIVE COMPILER)

STOIC HAS THE CAPABILITIES OF A COMPILER, EDITOR, ASSEMBLER, DEBUGGER, LOADER AND OPERATING SYSTEM. IT APPEARS TO BE CONCEPTUALLY SIMILAR TO FORTH IN THE USE OF AN EXTENSIBLE VOCABULARY OF WORDS, WITH THE ABILITY TO "FORGET" DEFINITIONS AND RE-DEFINE OR CREATE NEW WORDS IN TERMS OF PREVIOUSLY LEARNED WORDS.

THE FIRST TWO MODULES, THE BOOTSTRAP AND KERNEL, WERE WRITTEN IN ASSEMBLER MNEMONICS. THEREAFTER THE MODULES WERE WRITTEN IN STOIC WORDS.

THIS PACKAGE IS A STAND-ALONE SYSTEM AND DOES NOT REQUIRE A RESIDENT FDS, SUCH AS CP/M OR ISIS.

THE MATERIAL HAS BEEN SIGNIFICANTLY RE-ARRANGED AND REVISED SINCE THE CATALOGS WERE FIRST PUBLISHED. IN PARTICULAR THE KERNEL NOW INCORPORATES WORD DEFINITIONS WHICH PERMIT DIRECT OPERATION THROUGH CP/M. STOICCPM.DOC EXPLAINS THE PROCEDURE FOR BRINGING THE SYSTEM UP. IT WAS NECESSARY TO LEAVE CERTAIN FILES OFF BECAUSE OF LACK OF SPACE, AND THESE CAN BE OBTAINED AS VOLUME 23B. THE OVERFLOW VOLUMES WILL ALSO BE ADDED TO A FUTURE REGULAR VOLUME, AND WERE SELECTED AS THE LEAST NECESSARY FOR A CP/M USER.

FILES OF TYPE .STC ARE WRITTEN IN STOIC AND CAN BE LOADED AS DESCRIBED IN THE VOLUME23.DOC

| NUMBER | SIZE | NAME         | COMMENTS                                                    |
|--------|------|--------------|-------------------------------------------------------------|
|        |      | CATALOG.23   | CONTENTS OF CP/M GROUP VOL 23                               |
|        |      | VOLUME23.DOC | COMMENTS ON THIS VOLUME, ADDITIONAL TO STOICCPM.DOC         |
|        |      | STOICCPM.DOC | COMMENTS ON CP/M STOIC. READ TOGETHER WITH THE VOLUME23.DOC |
| 23A.1  | 13K  | ASSEMBL.DOC  | STOIC 8080 ASSEMBLER                                        |
| 23A.2  | 8K   | DICT.DOC     | STOIC DICTIONARY DEFINITIONS                                |
| 23A.3  | 8K   | EDIT.DOC     | STOIC DISPLAY EDITOR DOC                                    |
| 23A.4  | 9K   | FILES.DOC    | STOIC FILE SYSTEM DOC                                       |
| 23A.5  | 5K   | FLOATPNT.DOC | FLOATING POINT DOC                                          |
| 23A.6  | 2K   | INTRRPT.DOC  | INTERRUPT HANDLER DOC                                       |
| 23A.7  | 38K  | KERNEL.ASM   | STOIC KERNEL WITH CP/M WORDS IN 8080 ASSEMBLER              |
| 23A.8  | 24K  | KERNEL.DOC   | STOIC KERNEL DOC                                            |
| 23A.9  | 46K  | STOIC.DOC    | OVERVIEW OF STOIC CONCEPTS AND STRUCTURE                    |
| 23A.10 | 23K  | STOICBAS.STC | BASIC DEFINITIONS                                           |
| 23A.11 | 4K   | STOICD/A.STC | GRAPHICS FOR D/A HARDWARE                                   |
| 23A.12 | 9K   | STOICEDT.STC | EDITOR                                                      |
| 23A.13 | 3K   | STOICFFT.STC | FAST FOURIER TRANSFORM                                      |
| 23A.14 | 8K   | STOICFLE.STC | FILE SYSTEM                                                 |
| 23A.15 | 11K  | STOICFLT.STC | FLOATING POINT PACKAGE                                      |
| 23A.16 | 5K   | STOICINT.STC | 4 BYTE INTEGER ADDITION                                     |
| 23A.17 | 3K   | STOICITP.STC | INTERRUPT PACKAGE                                           |
| 23A.18 | 3K   | STOICMIS.STC | MISCELLANEOUS WORDS                                         |
| 23A.19 | 2K   | STOICSIN.STC | INTEGER SINE AND COSINE                                     |
| 23A.20 | 2K   | STOICSRT.STC | SORT ROUTINE                                                |

OVERFLOW AVAILABLE AS VOLUME 23B. THIS MATERIAL IS NOT ESSENTIAL

FOR CP/M USE, AND WILL BE AVAILABLE ON A REGULAR VOLUME AT SOME FUTURE DATE.

|       |     |           |                                                         |
|-------|-----|-----------|---------------------------------------------------------|
| 23B.1 | 7K  | BOOT.ASM  | STOIC BOOTSTRAP IN 8080 ASSEMBLER                       |
| 23B.2 | 2K  | BOOT.DOC  | BOOT DOC                                                |
| 23B.3 | 6K  | LOAD.DOC  | INFORMATION ON LOADING STOIC AS A<br>STAND-ALONE SYSTEM |
| 23B.4 | 13K | STOIC.COM | CP/M STOIC CONSTRUCTED AS DESCRIBED<br>IN VOLUME23.DOC  |

## VOLUME 25

## VARIOUS ASSEMBLER UTILITIES

| NUMBER | SIZE | NAME         | COMMENTS                                                                                              |
|--------|------|--------------|-------------------------------------------------------------------------------------------------------|
|        |      | CATALOG.25   | CONTENTS OF CP/M GROUP VOL 25                                                                         |
|        |      | VOLUME25.DOC | COMMENTS ON VOLUME CONTENTS                                                                           |
| 25.1   | 2K   | 88-MODEM.DOC | NOTES ON 25.2 BELOW                                                                                   |
| 25.2   | 32K  | 88-MODEM.ASM | INTELLIGENT TERMINAL PROGRAM FOR THE IDS 88 MODEM BOARD. SEE DR. DOBB'S VOL 3, ISSUE 6, JUN-JUL 1978. |
| 25.3   | 3K   | BKSPACE.DOC  | NOTES ON BACKSPACE HANDLING IN CP/M AND MICROSOFT BASIC.                                              |
| 25.4   | 4K   | FRAGMENT.DOC | PAGING AND SCREEN COPY CODE FOR MEMORY MAPPED VIDEO BOARD.                                            |
| 25.5   | 5K   | LETTER.ASM   | PERSONALIZED FORM LETTER GENERATOR. FOR MAC ASSEMBLER. OUTPUT IN DIGITAL RESEARCH TEX FORMAT.         |
| 25.6   | 3K   | LETTER.DOC   | DOCUMENTATION FOR LETTER                                                                              |
| 25.7   | 6K   | MYMAC.LIB    | MACRO LIBRARY NEEDED TO ASSEMBLE LETTER.                                                              |
| 25.8   | 2K   | NAMES.DAT    | SAMPLE NAME FILE FOR LETTER.                                                                          |
| 25.9   | 9K   | DCHAYES.ASM  | PROGRAM IN DCHAYES MODEM MANUAL.                                                                      |
| 25.10  | 7K   | DCHDIAG.ASM  | DIAGNOSTIC FOR DCHAYES MODEM.                                                                         |
| 25.11  | 13K  | MODEM.ASM    | INTELLIGENT TERMINAL PROGRAM FOR CACHE COMPUTER NETWORK.                                              |
| 25.12  | 3K   | MODEM.DOC    | DOCUMENTATION FOR 25.11                                                                               |
| 25.13  | 26K  | CBIOS24.ASM  | BIOS FOR TARBELL DISK CONTROLLER. SEE TARBELL.DOC                                                     |
| 25.14  | 2K   | SBOOT24.ASM  | BOOT FOR TARBELL DISK CONTROLLER. SEE TARBELL.DOC                                                     |
| 25.15  | 26K  | FBIOS24.ASM  | BIOS FOR DUAL PERSCI DISK CONTROLLER. SEE TARBELL.DOC                                                 |
| 25.16  | 2K   | FBOOT24.ASM  | BOOT FOR DUAL PERSCI DISK CONTROLLER. SEE TARBELL.DOC                                                 |
| 25.17  | 9K   | COPY.ASM     | USERS' GROUP 1.3 MODIFIED FOR TARBELL CONTROLLER.                                                     |
| 25.18  | 9K   | FORMAT.ASM   | DISK INITIALIZE PROGRAM FOR TARBELL CONTROLLER.                                                       |
| 25.19  | 3K   | TARBELL.DOC  | NOTES ON 25.13 THROUGH 25.18.                                                                         |
| 25.20  | 3K   | NOTES.VAN    | NOTES ON CP/M OPERATION AND UNDOCUMENTED FEATURES.                                                    |
| 25.21  | 5K   | CAT.ASM      | MASTER DISK CATALOG SYSTEM PROGRAM.                                                                   |
| 25.22  | 8K   | UCAT.ASM     | MASTER DISK CATALOG SYSTEM PROGRAM.                                                                   |
| 25.23  | 5K   | QCAT.ASM     | MASTER DISK CATALOG SYSTEM PROGRAM.                                                                   |
| 25.24  | 7K   | CATALOG.DOC  | DOCUMENTATION FOR MASTER CATALOG SYSTEM.                                                              |
| 25.25  | 13K  | STOIC.COM    | CP/M STOIC CONSTRUCTED AS DESCRIBED IN VOLUME23.DOC.                                                  |
| 25.26  | 7K   | BOOT.ASM     | STOIC BOOTSTRAP IN 8080 ASSEMBLER.                                                                    |
| 25.27  | 2K   | BOOT.DOC     | BOOT DOCUMENTATION.                                                                                   |
| 25.28  | 6K   | LOAD.DOC     | INFORMATION ON LOADING STOIC AS A STAND-ALONE SYSTEM.                                                 |
| 25.29  | 1K   | STATPCH.ASM  | DEVICE NAME PATCHES FOR STAT                                                                          |
| 25.30  | 3K   | TTYDRV.MAC   | TTY DRIVERS FROM MICROSOFT FORTRAN                                                                    |

## VOLUME 26

## MICROSOFT BASIC AND FORTRAN GAMES AND UTILITIES

| NUMBER | SIZE | NAME          | COMMENTS                                                                |
|--------|------|---------------|-------------------------------------------------------------------------|
|        |      | CATALOG.26    | CONTENTS OF CP/M GROUP VOL 26                                           |
|        |      | ZOS026.DOC    | OUR REVIEWER'S COMMENTS ON VOL 26 AND 27                                |
| 26.1   | 4K   | BACCRRT.ASC   | MICROSOFT BASIC GAME. SEE ZOS026.DOC FOR<br>NOTE ON CRT DEPENDENT CODE. |
| 26.2   | 14K  | BASEBALL.ASC  | MICROSOFT BASIC GAME                                                    |
| 26.3   | 7K   | BIOCAL.ASC    | BIORHYTHM PROGRAM. SEE ZOS026.DOC.                                      |
| 26.4   | 6K   | BIRTHDAY.ASC  | GIVES DAY OF WEEK FOR ANY DATE                                          |
| 26.5   | 8K   | BLACKJACK.ASC | MICROSOFT BASIC GAME. SEE ZOS026.DOC FOR<br>NOTE ON CRT DEPENDENT CODE. |
| 26.6   | 10K  | BUDGET.ASC    | BUDGET PROGRAM. SEE ZOS026.DOC                                          |
| 26.7   | 3K   | CHASE.ASC     | MICROSOFT BASIC GAME                                                    |
| 26.8   | 12K  | CHESS.ASC     | MICROSOFT BASIC GAME                                                    |
| 26.9   | 9K   | CIVILWAR.ASC  | MICROSOFT BASIC GAME                                                    |
| 26.10  | 6K   | CLIMATES.ASC  | MICROSOFT BASIC GAME                                                    |
| 26.11  | 6K   | CLOUD-9.ASC   | MICROSOFT BASIC GAME                                                    |
| 26.12  | 5K   | CRAPS.ASC     | MICROSOFT BASIC GAME                                                    |
| 26.13  | 7K   | CRAZY-8.ASC   | MICROSOFT BASIC GAME. SEE ZOS026.DOC FOR<br>NOTE ON CRT DEPENDENT CODE. |
| 26.14  | 1K   | GALAXY.ASC    | MICROSOFT BASIC GAME                                                    |
| 26.15  | 2K   | GALAXY2.ASC   | MICROSOFT BASIC GAME                                                    |
| 26.16  | 8K   | SQUARE.ASC    | MICROSOFT BASIC GAME                                                    |
| 26.17  | 16K  | SWARMS.ASC    | MICROSOFT BASIC GAME                                                    |
| 26.18  | 8K   | WEATHER.ASC   | MICROSOFT BASIC GAME                                                    |
| 26.19  | 5K   | WORD-PLZ.ASC  | MICROSOFT BASIC GAME                                                    |
| 26.20  | 12K  | OTHELLO.FOR   | FORTTRAN VERSION OF OTHELLO ON VOL 15.<br>SEE ZOS026.DOC                |
| 26.21  | 22K  | OTHELLO.COM   | EXECUTABLE 26.20                                                        |
| 26.22  | 1K   | CHAIN.ASC     | PROGRAM TO COPY FROM CONSOLE TO XXX.SUB FILE.                           |
| 26.23  | 2K   | EDITM.FOR     | FORTTRAN IV PROGRAM. WRITES M80 PRN FILE<br>TO LST DEVICE.              |

## VOLUME 27

## MICROSOFT BASIC GAMES

| NUMBER | SIZE | NAME          | COMMENTS                                                                      |
|--------|------|---------------|-------------------------------------------------------------------------------|
|        |      | CATALOG.27    | CONTENTS OF CP/M GROUP VOL 27                                                 |
|        |      | ZOS027.DOC    | OUR REVIEWER'S COMMENTS ON VOL 26 AND 27                                      |
| 27.1   | 6K   | ANTONYMS.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.2   | 4K   | DISSAMBR.ASC  | DISASSEMBLER. SEE ZOS027.DOC                                                  |
| 27.3   | 8K   | DOTS.ASC      | MICROSOFT BASIC GAME                                                          |
| 27.4   | 3K   | DRAGRACE.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.5   | 8K   | FOOTBALL.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.6   | 10K  | GOLF.ASC      | MICROSOFT BASIC GAME                                                          |
| 27.7   | 2K   | GREEKRTS.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.8   | 6K   | HANGMN-1.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.9   | 6K   | HANGMN-2.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.10  | 6K   | HANGMN-3.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.11  | 3K   | HIDEESEEK.ASC | MICROSOFT BASIC GAME                                                          |
| 27.12  | 5K   | IQUEEN.ASC    | MICROSOFT BASIC GAME                                                          |
| 27.13  | 2K   | MASTERMD.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.14  | 5K   | MAZE.ASC      | MICROSOFT BASIC GAME                                                          |
| 27.15  | 7K   | MEMBRAIN.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.16  | 2K   | NIM.ASC       | MICROSOFT BASIC GAME                                                          |
| 27.17  | 7K   | ROULETTE.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.18  | 9K   | SHOP.ASC      | MICROSOFT BASIC GAME                                                          |
| 27.19  | 4K   | SNOOPY.ASC    | GENERATES SNOOPY PICTURE                                                      |
| 27.20  | 7K   | STARTREK.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.21  | 8K   | SYNONYMS.ASC  | MICROSOFT BASIC GAME                                                          |
| 27.22  | 11K  | BLUFF.INT     | MICROSOFT BASIC GAME                                                          |
| 27.23  | 12K  | RUN.COM       | RUN PROGRAM TO EXECUTE BLUFF.INT. SEE<br>ZOS027.DOC                           |
| 27.24  | 46K  | MEGATREK.ASC  | 22.1 TRIMMED TO RUN UNDER MICROSOFT BASIC<br>VERSION 4.5 IN A 63K CP/M SYSTEM |
| 27.25  | 1K   | MEGATREK.DOC  | NOTE ON MEGATREK                                                              |

## VOLUME 28

BASIC-E UTILITIES AND GAMES INCLUDING A DATA BASE SYSTEM AND AN ALGOL-LIKE LANGUAGE. UPDATED PROGRAMS FOR THE CACHE MAILLIST.

| NUMBER | SIZE | NAME                       | COMMENTS                                                                                                                             |
|--------|------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 28.1   | 6K   | CATALOG.28<br>DATABASE.DOC | CONTENTS OF CP/M GROUP VOL 28<br>DOCUMENTATION FOR INITIAL MODULES OF<br>DATABASE SYSTEM.                                            |
| 28.2   | 6K   | DBENTRY.BAS                | D.B. SYSTEM FILE LOAD UTILITY                                                                                                        |
| 28.3   | 7K   | DBQUERY.BAS                | D.B. SYSTEM QUERY AND UPDATE MODULE                                                                                                  |
| 28.4   | 7K   | DBSETUP.BAS                | D.B. SYSTEM FILE INITIALIZATION MODULE                                                                                               |
| 28.5   | 1K   | INV.                       | SAMPLE FILE DEFINITION FOR INVENTORY DATA BASE                                                                                       |
| 28.6   | 1K   | INV.IND                    | SAMPLE PART # INDEX FOR INVENTORY FILE                                                                                               |
| 28.7   | 23K  | MAILLIST.DOC               | UPDATED DOCUMENTATION FOR CACHE MAILING LIST<br>SYSTEM                                                                               |
| 28.8   | 11K  | MAINT.BAS                  | UPDATED MAILLIST PROGRAM. HANDLES MORE DATA<br>FIELDS IN FILE.                                                                       |
| 28.9   | 11K  | REPORT.BAS                 | IMPROVED MAILLIST REPORT PROGRAM.                                                                                                    |
| 28.10  | 14K  | ALGOLM.COM                 | ALGOLM COMPILER BY LT. MARK S.<br>MORANVILLE-NAVAL POSTGRADUATE SCHOOL.<br>SEE PROCEEDINGS OF SECOND WEST COAST<br>FAIRE, MARCH 1978 |
| 28.11  | 14K  | RUNALG.COM                 | ALGOLM INT FILE INTERPRETER                                                                                                          |
| 28.12  | 9K   | ALGINTRO.TXT               | ALGOLM INTRODUCTION                                                                                                                  |
| 28.13  | 3K   | ALGSTART.TXT               | ALGOLM RUN INSTRUCTIONS                                                                                                              |
| 28.14  | 2K   | COMERR.TXT                 | ALGOLM COMPILE ERRORS DOCUMENTATION                                                                                                  |
| 28.15  | 2K   | RUNERR.TXT                 | ALGOLM RUN TIME ERRORS DOCUMENTATION                                                                                                 |
| 28.16  | 25K  | USRMAN.TXT                 | ALGOLM USER MANUAL                                                                                                                   |
| 28.17  | 3K   | ARRAY.ALG                  | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.18  | 1K   | BOOLINT.ALG                | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.19  | 1K   | CASETEST.ALG               | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.20  | 1K   | CASETWO.ALG                | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.21  | 1K   | FLYTEST.ALG                | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.22  | 1K   | GOTOTEST.ALG               | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.23  | 1K   | HANOI.ALG                  | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.24  | 2K   | LUNAR.ALG                  | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.25  | 2K   | PERM.ALG                   | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.26  | 2K   | READWORD.ALG               | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.27  | 1K   | RWINT.ALG                  | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.28  | 1K   | SIISTR.ALG                 | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.29  | 2K   | SORT.ALG                   | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.30  | 1K   | STRING.ALG                 | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.31  | 1K   | STRTST.ALG                 | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.32  | 1K   | BLKTEST.ALG                | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.33  | 1K   | ONEND2.ALG                 | SAMPLE ALGOLM PROGRAM                                                                                                                |
| 28.34  | 1K   | WFILE.OUT                  | SAMPLE ALGOLM PROGRAM OUTPUT                                                                                                         |
| 28.35  | 1K   | WINPUT.INP                 | DEMO INPUT FILE FOR READWORD.                                                                                                        |
| 28.36  | 1K   | RFILE.INP                  | DEMO INPUT FILE FOR RWINT.                                                                                                           |
| 28.37  | 1K   | BLK.INP                    | DEMO INPUT FILE                                                                                                                      |
| 28.38  | 1K   | FILE1.INP                  | DEMO INPUT FILE                                                                                                                      |
| 28.39  | 1K   | FILE2.INP                  | DEMO INPUT FILE                                                                                                                      |

## VOLUME 29

ASSEMBLER GAMES AND UTILITIES AND CP/M BASIC-E VERSION 1.4 FLOATING  
POINT SOURCE(OBTAIN VOLUME 30 ALSO FOR COMPLETE SET)

| NUMBER | SIZE | NAME         | COMMENTS                                                                               |
|--------|------|--------------|----------------------------------------------------------------------------------------|
|        |      | CATALOG.29   | CONTENTS OF CP/M GROUP VOLUME 29                                                       |
|        |      | VOLUME29.DOC | COMMENTS ON PROGRAMS ON VOLUME 29                                                      |
| 29.1   | 25K  | TTT.ASM      | 3-D TIC TAC TOE GAME                                                                   |
| 29.2   | 9K   | CHASE.ASM    | VDM/SOL GAME. 15.3 WITH CP/M I/O. SEE VOLUME29.DOC.                                    |
| 29.3   | 3K   | TARGET.ASM   | VDM/SOL GAME.                                                                          |
| 29.4   | 8K   | DEFLECT.ASM  | VDM GAME                                                                               |
| 29.5   | 8K   | MUSIC.ASM    | MUSIC PROGRAM                                                                          |
| 29.6   | 2K   | MUSICP.COM   | MUSIC PROGRAM WITH TABLE FOR "SOUNDS OF SILENCE"                                       |
| 29.7   | 12K  | PIRANHA.ASM  | VDM GAME                                                                               |
| 29.8   | 19K  | ROBIN.ASM    | USES POLY VTI. SEE VOLUME29.DOC.                                                       |
| 29.9   | 3K   | ROBOT.ASM    | VDM GAME                                                                               |
| 29.10  | 2K   | ALLOC.ASM    | DISK ALLOCATION DISPLAY. SEE VOLUME29.DOC.                                             |
| 29.11  | 24K  | EDIT.ASM     | DISASSEMBLY OF 16.5. SEE VOLUME29.DOC.                                                 |
| 29.12  | 5K   | SAP.ASM      | SORTS AND PACKS DIRECTORY. IMPROVED VERSION OF 19.8. SEE VOLUME29.DOC.                 |
| 29.13  | 3K   | NOTATE.ASM   | ADDS COMMENTS TO ASM SOURCE. ASSEMBLE USING MAC                                        |
|        |      |              | SEE VOLUME29.DOC.                                                                      |
| 29.14  | 1K   | SYMSTACK.LIB | ASSEMBLER TIME PUSH/POP LIB FOR MAC. SEE VOLUME29.DOC.                                 |
| 29.15  | 2K   | NCOMPARE.LIB | CORRECTED VERSIONS OF DIGITAL RESEARCH DISTRIBUTION. SEE VOLUME29.DOC.                 |
| 29.16  | 11K  | SEQIO.LIB    | CORRECTED VERSION OF DIGITAL RESEARCH DISTRIBUTION. SEE VOLUME29.DOC.                  |
| 29.17  | 1K   | WHENS.LIB    | MODIFICATION OF DIGITAL RESEARCH VERSIONS TO ALLOW INFINITE NESTING. SEE VOLUME29.DOC. |
| 29.18  | 1K   | DOWHILES.LIB | MODIFICATION OF DIGITAL RESEARCH VERSIONS TO ALLOW INFINITE NESTING. SEE VOLUME29.DOC. |
| 29.19  | 2K   | SELECTS.LIB  | MODIFICATION OF DIGITAL RESEARCH VERSIONS TO ALLOW INFINITE NESTING. SEE VOLUME29.DOC. |
| 29.20  | 1K   | IGADD.MAC    | SUBROUTINE CALLABLE FROM FORTRAN-80                                                    |
| 29.21  | 1K   | MON1.MAC     | SUBROUTINE CALLABLE FROM FORTRAN-80                                                    |
| 29.22  | 1K   | MON2.MAC     | SUBROUTINE CALLABLE FROM FORTRAN-80                                                    |
| 29.23  | 2K   | UNLOAD.ASM   | CONVERTS COM FILE TO HEX. ASSEMBLE USING MAC. SEE VOLUME29.DOC.                        |
| 29.24  | 14K  | FPCONV.SRC   | CP/M BASIC-E FLOATING POINT CONVERSION PACKAGE                                         |
| 29.25  | 2K   | Fpdata.SRC   | EQUATE TABLES FOR FP CONV                                                              |
| 29.26  | 8K   | FPINT.SRC    | INTERFACE BETWEEN INTERPRETER AND FLOATING POINT PACKAGE                               |
| 29.27  | 29K  | FPPKG.SRC    | INTERPRETER                                                                            |
| 29.28  | 13K  | TRAN.SRC     | TRANSCENDENTAL FUNCTION PACKAGE                                                        |
| 29.29  | 5K   | MOVE.ASM     | 1 DISK MOVE PROGRAM. ASSEMBLE USING MAC.                                               |
| 29.30  | 6K   | MOVENMAC.ASM | MOVE.ASM WITH MACROS EXPANDED FOR ASSEMBLY USING ASM.                                  |
| 29.31  | 5K   | TIMESQ.ASM   | SIGN GENERATOR FOR VDM.                                                                |
| 29.32  | 3K   | WSYSGEN.ASM  | PROGRAM TO SYSGEN A STACK OF DISKS EASILY.                                             |
| 29.33  | 1K   | VDM.DOC      | MODIFY ED TO PAGE 16 LINES INSTEAD OF 24.                                              |

## VOLUME 30

CP/M BASIC-E VERSION 1.4 PLM SOURCE  
(OBTAIN VOL 29 ALSO FOR COMPLETE SET)

| NUMBER | SIZE | NAME       | COMMENTS                                                          |
|--------|------|------------|-------------------------------------------------------------------|
|        |      | CATALOG.30 | CONTENTS OF CP/M GROUP VOLUME 30                                  |
| 30.1   | 2K   | BASCOM.LIT | LITERAL EQUATES                                                   |
| 30.2   | 39K  | BASIC.PLM  | VERSION 1.4 BASIC-E COMPILER MODIFIED FOR CP/M                    |
| 30.3   | 14K  | BASPAR.PLM | PARSER MODULE                                                     |
| 30.4   | 54K  | BASSYN.PLM | SYMBOL TABLE AND CODE GENERATOR MODULE                            |
| 30.5   | 12K  | BASIC.COM  | EXECUTABLE COMPILE MODULE                                         |
| 30.6   | 66K  | RUN.PLM    | RUN MODULE                                                        |
| 30.7   | 12K  | RUN.COM    | EXECUTABLE RUN MODULE                                             |
| 30.8   | 17K  | BUILD.PLM  | INVOKED WHEN RUN CALLED TO BUILD<br>INTERNAL TABLES FROM INT FILE |

## VOLUME 31

TARBELL BASIC MANUAL AND ASSEMBLER SOURCE  
(OBTAIN VOLUME 32 ALSO FOR COMPLETE PACKAGE)

| NUMBER | SIZE | NAME         | COMMENTS             |
|--------|------|--------------|----------------------|
| 31.1   | 2K   | TBASIC.TOC   | TABLE OF CONTENTS    |
| 31.2   | 3K   | TBASIC.1     | CHAPTER 1            |
| 31.3   | 2K   | TBASIC.2     | CHAPTER 2            |
| 31.4   | 3K   | TBASIC.3     | CHAPTER 3            |
| 31.5   | 3K   | TBASIC.4     | CHAPTER 4            |
| 31.6   | 3K   | TBASIC.5     | CHAPTER 5            |
| 31.7   | 3K   | TBASIC.6     | CHAPTER 6            |
| 31.8   | 4K   | TBASIC.7     | CHAPTER 7            |
| 31.9   | 3K   | TBASIC.8     | CHAPTER 8            |
| 31.10  | 2K   | TBASIC.9     | CHAPTER 9            |
| 31.11  | 3K   | TBASIC.10    | CHAPTER 10           |
| 31.12  | 3K   | TBASIC.11    | CHAPTER 11           |
| 31.13  | 2K   | TBASIC.12    | CHAPTER 12           |
| 31.14  | 2K   | TBASIC.13    | CHAPTER 13           |
| 31.15  | 2K   | TBASIC.14    | CHAPTER 14           |
| 31.16  | 2K   | TBASIC.15    | CHAPTER 15           |
| 31.17  | 3K   | TBASIC.A     | APPENDIX A           |
| 31.18  | 3K   | TBASIC.B1    | APPENDIX B PAGE 1    |
| 31.19  | 3K   | TBASIC.B2    | APPENDIX B PAGE 2    |
| 31.20  | 3K   | TBASIC.C     | APPENDIX C           |
| 31.21  | 2K   | TBASIC.D1    | APPENDIX D PAGE 1    |
| 31.22  | 2K   | TBASIC.D2    | APPENDIX D PAGE 2    |
| 31.23  | 3K   | TBASIC.E     | APPENDIX E           |
| 31.24  | 1K   | TBASIC.H     | APPENDIX H           |
| 31.25  | 3K   | TBASIC.I     | APPENDIX I           |
| 31.26  | 2K   | TBASIC.J     | APPENDIX J           |
| 31.27  | 1K   | TBASIC.K     | APPENDIX K           |
| 31.28  | 3K   | TBASIC.IND   | INDEX                |
| 31.29  | 3K   | TBASIC.AD    | PRODUCT DESCRIPTION  |
| 31.30  | 3K   | TBASIC.CPM   | SPECIAL INSTRUCTIONS |
| 31.31  | 21K  | TBASIC.COM   | EXECUTABLE MODULE    |
| 31.32  | 43K  | TBASICA4.ASM | SOURCE MODULE        |
| 31.33  | 55K  | TBASICA5.ASM | SOURCE MODULE        |
| 31.34  | 26K  | TBASICA6.ASM | SOURCE MODULE        |

## VOLUME 32

TARBELL BASIC. ASSEMBLER SOURCE  
(OBTAIN VOL 31 ALSO FOR COMPLETE SET)

| NUMBER | SIZE | NAME         | COMMENTS                      |
|--------|------|--------------|-------------------------------|
| 32.1   | 1K   | READ.ME      | NOTE FROM TARBELL ELECTRONICS |
| 32.2   | 10K  | RTMASM.COM   | MULTI INPUT FILE ASSEMBLER    |
| 32.3   | 3K   | RTMASM.DOC   | INSTRUCTIONS FOR ASSEMBLING   |
| 32.4   | 26K  | TBASICA1.ASM | SOURCE MODULE                 |
| 32.5   | 47K  | TBASICA2.ASM | SOURCE MODULE                 |
| 32.6   | 53K  | TBASICA3.ASM | SOURCE MODULE                 |
| 32.7   | 19K  | TBASICIO.ASM | SOURCE MODULE                 |

## VOLUME 33

## SEARCH AND RESCUE PROGRAMS FROM R.A. GREGOIRE

| NUMBER | SIZE | NAME         | COMMENTS                                         |
|--------|------|--------------|--------------------------------------------------|
|        |      | CATALOG.33   | CONTENTS OF CP/M GROUP VOLUME 33                 |
| 33.1   | 8K   | SAR.DOC      | DETAILED DESCRIPTIONS OF THE SAR PROGRAMS        |
| 33.2   | 1K   | ADDPOD.BAS   | CALCULATES JOINT PROBABILITY OF DETECTION        |
| 33.3   | 18K  | BITCASP.BAS  | ENHANCED RJCASP TO USE SUMMAGRAPHS BITPAD        |
| 33.4   | 22K  | CAESAR.BAS   | FLIGHT LOG KEEPER                                |
| 33.5   | 2K   | CAESAR.BQ    | CAESAR BRIEFING QUESTIONNAIRE                    |
| 33.6   | 2K   | CAESAR.DQ    | CAESAR DEBRIEFING QUESTIONNAIRE                  |
| 33.7   | 4K   | CAESAR.MQ    | CAESAR MISSION QUESTIONNAIRE                     |
| 33.8   | 4K   | CASERCH.BAS  | GAME TO TEACH FUNDAMENTALS OF SAR                |
| 33.9   | 20K  | CASPGAME.BAS | DEMONSTRATOR FOR BITCASP                         |
| 33.10  | 14K  | CASPPLUS.BAS | EXPANDED VERSION OF RJCASP                       |
| 33.11  | 7K   | DFELT.BAS    | RE-WRITE OF N-ELT1                               |
| 33.12  | 3K   | ELTPOD.BAS   | CALCULATES ELECTRONIC DISCOVERY PROBABILITIES    |
| 33.13  | 10K  | N-ELT1.ASC   | MICROSOFT BASIC VERSION - SEE 33.15              |
| 33.14  | 10K  | N-ELT1.BAS   | CBASIC VERSION - SEE 33.15                       |
| 33.15  | 6K   | N-ELT1.DOC   | RADIO DIRECTION FINDING TO LOCALIZE RADIO BEACON |
| 33.16  | 2K   | OPT.BAS      | TESTS PROBABILITY OF VISUAL DETECTION            |
| 33.17  | 3K   | RJCASP.BAS   | ALLOCATION OF SEARCH RESOURCE                    |
| 33.18  | 9K   | SERCHGME.BAS | 33.8 RE-WITTEN AS STRUCTURED PROGRAM             |
| 33.19  | 3K   | VISPOD.BAS   | CALCULATES VISUAL DISCOVERY PROBABILITIES        |

## VOLUME 34

SAM76. An interesting macro / text processing language. Also contains (\*) some utilities that the author found useful, and which were therefore left on the disk.

"SAM76 The First Language Manual" is available, \$15 postpaid, from: SAM76 Inc.  
Box 257 RR1  
Pennington, N. J., 08534

See Dr. Dobbs Journal #26 (Volume 3, Issue 1) for a look at SAM76, but consider the above book as the "real" reference.

| NUMBER | SIZE | NAME         | COMMENTS                                                                             |
|--------|------|--------------|--------------------------------------------------------------------------------------|
|        |      | -CATALOG.034 | CONTENTS OF CP/M VOL. 34                                                             |
| 34.1   | 1K   | ABSTRACT.034 | Quick look at SAM76                                                                  |
| 34.2   | 8K   | ASTRO.FNT    | Astrological signs for graphics                                                      |
| 34.3   | 1K   | BONUS.DOC    | Function documentation                                                               |
| 34.4   | 1K   | BOOK.DOC     | How to order SAM76 manual                                                            |
| 34.5   | 1K   | COPY.COM     | * Disk copy program                                                                  |
| 34.6   | 1K   | CPMSETL.COM  | Part of SAM76 setup procedure                                                        |
| 34.7   | 3K   | DEMO.SAM     | Some interesting demo programs                                                       |
| 34.8   | 1K   | DIRFIX.SAM   | Disk directory routines                                                              |
| 34.9   | 19K  | EXTF.ASM     | Various routines, including                                                          |
| 34.10  | 1K   | EXTF.DOC     | ..a clock driver.                                                                    |
| 34.11  | 1K   | FRIEND.DOC   | oops!! Applies to something not supplied on disk: a vers of SAM76 that runs at 8000H |
| 34.12  | 2K   | G.SAM        | Sets up SAM for load-and-go                                                          |
| 34.13  | 1K   | HOOH.SAM     | Hex to octal to hex                                                                  |
| 34.14  | 1K   | IDUMP.COM    | Interpreted file dump (**)                                                           |
| 34.15  | 13K  | ILRAW.COM    | Raw copy of SAM76. See READ-ME.DOC and S.DOC                                         |
| 34.16  | 10K  | INFO.SAM     | Creates following .DOC files                                                         |
| 34.17  | 1K   | INFO1.DOC    | <<Empty>> ??                                                                         |
| 34.18  | 1K   | INFO2.DOC    | Misc. DOC                                                                            |
| 34.19  | 2K   | INFO3.DOC    | Misc. DOC                                                                            |
| 34.20  | 1K   | INFO4.DOC    | <<Empty>> ??                                                                         |
| 34.21  | 2K   | INFO5.DOC    | Misc. DOC                                                                            |
| 34.22  | 1K   | KSAP.COM     | * Sort and pack directory                                                            |
| 34.23  | 3K   | LABEL.SAM    | Demo prog.                                                                           |
| 34.24  | 1K   | LOOP.SAM     | Demo prog.                                                                           |
| 34.25  | 1K   | MOVE2.SAM    | Demo prog.                                                                           |
| 34.26  | 1K   | MULT.SAM     | Multiplies long decimal #'s                                                          |
| 34.27  | 5K   | NEWS.SAM     | Random news story generator.                                                         |
| 34.28  | 10K  | PIUR.FNT     | Used with graphics                                                                   |
| 34.29  | 15K  | PLOT.ASM     | For graphics on Poly/TRS-80                                                          |
| 34.30  | 1K   | PLOT.DOC     | ..type board, or plotter.                                                            |
| 34.31  | 7K   | PRINT.SAM    | Print SAM files                                                                      |
| 34.32  | 3K   | READ-ME.DOC  | One user's experiences.                                                              |
| 34.33  | 2K   | S.DOC        | Doc on creating S.COM                                                                |
| 34.34  | 1K   | SIZE.SAM     | Demo                                                                                 |
| 34.35  | 1K   | SIZLST.SAM   | Demo                                                                                 |
| 34.36  | 4K   | SLED.SAM     | Demo                                                                                 |
| 34.37  | 4K   | THREED.SAM   | Demo                                                                                 |
| 34.38  | 7K   | UPD051.TXT   | ???                                                                                  |
| 34.39  | 7K   | UPD052.TXT   | ???                                                                                  |
| 34.40  | 1K   | VERIFY.SAM   | Demo                                                                                 |

|       |    |             |                                                          |
|-------|----|-------------|----------------------------------------------------------|
| 34.41 | 6K | VOLSAM.DOC  | Volume documentation<br>("extended abstract")            |
| 34.42 | 3K | X\$UTIL.SAM | Demo                                                     |
| 34.43 | 4K | XD.COM      | * directory lister                                       |
| 34.44 | 1K | XDIR.COM    | * directory lister                                       |
| 34.45 | 1K | XM.COM      | * directory lister (seems like<br>an old copy of "FMAP") |

\*\* .SAM files are not printable due to control-Z at their start, so IDUMP was included on this disk "for the curious". It is an hex-ascii interpreted file dump program.

## VOLUME 35

FELIX - GRAPHICS ANIMATION SYSTEM - with pseudo assembler, etc.  
See ABSTRACT.35

| NUMBER | SIZE | NAME         | COMMENTS                                                      |
|--------|------|--------------|---------------------------------------------------------------|
|        |      | -CATALOG.035 | CONTENTS OF CP/M VOL. 35                                      |
|        |      | ABSTRACT.035 | Abstract of disk contents                                     |
| 35.1   | 2K   | BEE.FAS      | Source code for a cartoon about<br>a bee and a bird.          |
| 35.2   | 10K  | BEE#.FEX     | Executable bee story, with<br>background and objects.         |
| 35.3   | 5K   | CHECKOU&.FEX | Executable checkout.                                          |
| 35.4   | 4K   | CHECKOUT.FAS | Felix pseudo-machine<br>diagnostic program                    |
| 35.5   | 8K   | CLEAR.ASM    | Start of FELIX source code                                    |
| 35.6   | 1K   | CREATE.ASM   | FELIX source code                                             |
| 35.7   | 1K   | DISPONOF.ASM | FELIX source code                                             |
| 35.8   | 1K   | DISTEST.FAS  | Demo of distance operator,<br>joystick rescaling.             |
| 35.9   | 5K   | DISTEST&.FEX | Executable DISTANCE TEST.                                     |
| 35.10  | 11K  | DISTPLUS.ASM | FELIX source code                                             |
| 35.11  | 14K  | DOODLE.ASM   | FELIX source code                                             |
| 35.12  | 1K   | DOODLE.COM   | OBJECT DRAWING UTILITY.                                       |
| 35.13  | 3K   | DSKRD.ASM    | FELIX source code                                             |
| 35.14  | 1K   | EXEC.COM     | PSEUDO-MACHINE INTERPRETER.                                   |
| 35.15  | 2K   | EXEC.OBJ     | The 'actual' pseudo-machine<br>(loaded by EXEC.COM,TRACE.COM) |
| 35.16  | 9K   | EXECPLUS.ASM | FELIX source code                                             |
| 35.17  | 2K   | EXECSAFE.ASM | FELIX source code                                             |
| 35.18  | 10K  | FANCY#.FEX   | Same as 'PAINTER&' but with a<br>pretty init. background      |
| 35.19  | 9K   | FASM.COM     | PSEUDO-CODE ASSEMBLER.                                        |
| 35.20  | 1K   | FCBMV.ASM    | FELIX source code                                             |
| 35.21  | 1K   | FCBNEW.ASM   | FELIX source code                                             |
| 35.22  | 5K   | FELIX.ASM    | FELIX source code                                             |
| 35.23  | 1K   | FELIX.COM    | INITIAL SETUP ROUTINE.                                        |
| 35.24  | 7K   | FELIX.DOC    | SOME DETAILS ABOUT THE SYSTEM.                                |
| 35.25  | 3K   | FELIX.OBJ    | The 'actual' base routines<br>(loaded by FELIX.COM)           |
| 35.26  | 3K   | FELIXV1.CAT  | Author's original volume cat.                                 |
| 35.27  | 2K   | GETF.ASM     | FELIX source code                                             |
| 35.28  | 2K   | GETW.ASM     | FELIX source code                                             |
| 35.29  | 2K   | HEXOUT.ASM   | FELIX source code                                             |
| 35.30  | 2K   | LOADBACK.COM | Utility for getting<br>backgrounds from disk.                 |
| 35.31  | 2K   | LOADOB.COM   | utility for getting objects<br>from disk                      |
| 35.32  | 5K   | LOADPROG.ASM | Utility for getting (parts of)<br>programs from disk.         |
| 35.33  | 1K   | LOADPROG.COM | Object of above                                               |
| 35.34  | 2K   | MUSTANG.FAS  | Cowboy jumps on a horse as<br>it rides by.                    |
| 35.35  | 6K   | MUSTANG&.FEX | Executable cowboy story.                                      |
| 35.36  | 15K  | NUMBER.ASM   | FELIX source code                                             |
| 35.37  | 3K   | OBJECT.ASM   | FELIX source code                                             |
| 35.38  | 1K   | OBJNULL.ASM  | FELIX source code                                             |
| 35.39  | 1K   | PAINT.FAS    | Source code for a simple paint-<br>er. Needs joysticks.       |

|       |     |              |                                                              |
|-------|-----|--------------|--------------------------------------------------------------|
| 35.40 | 1K  | PAINT.FEX    | PAINTER for use with<br>your own objects.                    |
| 35.41 | 2K  | PAINT.PRN    | PAINT.FAS listing                                            |
| 35.42 | 6K  | PAINT&.FEX   | Painter for use with<br>its own objects.                     |
| 35.43 | 4K  | PAINTER.FEX  | Painter using 'Theta'<br>(added A/D in)                      |
| 35.44 | 6K  | PAINTER&.FEX | Painter with Theta and its<br>own objects.                   |
| 35.45 | 11K | PARM.ASM     | FELIX source code                                            |
| 35.46 | 3K  | PATH.ASM     | FELIX source code                                            |
| 35.47 | 3K  | POSIT.ASM    | FELIX source code                                            |
| 35.48 | 3K  | PUTF.ASM     | FELIX source code                                            |
| 35.49 | 3K  | PUTW.ASM     | FELIX source code                                            |
| 35.50 | 1K  | RESCALE.ASM  | FELIX source code                                            |
| 35.51 | 5K  | ROTATE.ASM   | FELIX source code                                            |
| 35.52 | 1K  | SAPD.COM     | ????                                                         |
| 35.53 | 2K  | SAVEBACK.COM | Utility for saving backgrounds<br>to disk.                   |
| 35.54 | 2K  | SAVEOB.COM   | Utility for saving objects<br>to disk                        |
| 35.55 | 5K  | SHOWSWAP.ASM | FELIX source code                                            |
| 35.56 | 4K  | SINCOS.OBJ   | A SIN-COS table, plus some<br>routines (loaded by FELIX.COM) |
| 35.57 | 1K  | SPIN.ASM     | FELIX source code                                            |
| 35.58 | 1K  | TABLE.ASM    | FELIX source code                                            |
| 35.59 | 2K  | TRACE.ASM    | FELIX source code                                            |
| 35.60 | 1K  | TRACE.COM    | Pseudo-machine interpreter<br>with trace.                    |
| 35.61 | 2K  | XTRA.ASM     | FELIX source code                                            |

## VOLUME 36

Assemblers, editors, text processor related programs,  
memory bank boot and manager, misc. utilities,  
drivers for TDL software, etc.

| NUMBER | SIZE | NAME         | COMMENTS                       |
|--------|------|--------------|--------------------------------|
|        |      | -CATALOG.036 | CONTENTS OF CP/M VOL. 36       |
|        | 6K   | ABSTRACT.036 | Abstract on some files         |
| 36.1   | 7K   | COMBINE.ASM  | Combine multiple .asm files..  |
| 36.2   | 1K   | COMBINE.COM  | ..and delete comments          |
| 36.3   | 4K   | CPM-PEN.ASM  | Convert CP/M to electric..     |
| 36.4   | 1K   | CPM-PEN.COM  | ..pencil files                 |
| 36.5   | 8K   | FIND.ASM     | Find ASCII string in 1 or..    |
| 36.6   | 1K   | FIND.COM     | ..more files                   |
| 36.7   | 1K   | FIND.DOC     | DOC on above                   |
| 36.8   | 11K  | L82.COM      | ML80 Component                 |
| 36.9   | 1K   | LINES.COM    | Count lines in an ASCII file   |
| 36.10  | 1K   | LINES.DOC    | DOC of above                   |
| 36.11  | 6K   | LINKASM.COM  | ASM.COM with feature to link.. |
| 36.12  | 5K   | LINKASM.DOC  | ..files together at assembly   |
| 36.13  | 1K   | LIST.COM     | List files with starting..     |
| 36.14  | 1K   | LIST.DOC     | ..line number                  |
| 36.15  | 10K  | M81.COM      | ML80 Component                 |
| 36.16  | 11K  | MAC6.AZM     | I/O drivers for TDL..          |
| 36.17  | 2K   | MAC6.COM     | ..macro assembler              |
| 36.18  | 4K   | MAC6.DOC     | ..                             |
| 36.19  | 8K   | MBMBOT.ASC   | Memory bank boot & mgmt        |
| 36.20  | 3K   | MFACCESS.LIB | Subroutine to setup for..      |
|        |      |              | ..multiple files (ex: *.ASM)   |
| 36.21  | 2K   | ML80.DOC     | DOC on ML80 components         |
| 36.22  | 9K   | ML80.REF     | Reference material on ML80     |
| 36.23  | 3K   | PEN-CPM.ASM  | Electric Pencil to CP/M file.. |
| 36.24  | 1K   | PEN-CPM.COM  | ..conversion program           |
| 36.25  | 2K   | PEN-CPM.DOC  | ..                             |
| 36.26  | 24K  | POW.ASM      | Source for text processor      |
| 36.27  | 5K   | POWCMDS.POW  | POW documentation              |
| 36.28  | 2K   | POWTEXT.POW  | More POW doc.                  |
| 36.29  | 6K   | SCRAMBLE.ASM | File encode/decode             |
| 36.30  | 2K   | SCRAMBLE.DOC | Doc on above                   |
| 36.31  | 17K  | TED.COM      | Nice CP/M text editor, with..  |
| 36.32  | 23K  | TED.DOC      | ..built in help features.      |
| 36.33  | 10K  | TOP.AZM      | TDL Text output processor..    |
| 36.34  | 5K   | TOP.PRN      | ..patches                      |
| 36.35  | 3K   | TOP.TOP      | ..                             |
| 36.36  | 22K  | XREF.ASM     | Cross references .ASM files    |

## VOLUME 37

CBASIC2 programs: (coded in comments)

- (1) Comprehensive arithmetic teaching programs;
- (2) CRAPS program;
- (3) some accounting programs;
- (4) parts list program
- (5) Basic interpreter keyword changer (not CBASIC)

| NUMBER | SIZE | NAME         | COMMENTS                                |
|--------|------|--------------|-----------------------------------------|
|        |      | -CATALOG.037 | CONTENTS OF CP/M VOL. 37                |
|        | 6K   | ABSTRACT.037 | Abstract of disk contents               |
| 37.1   | 3K   | AREA.BAS     | (1) Metric conversion in CBASIC         |
| 37.2   | 2K   | AREA.INT     | (1) INT of above                        |
| 37.3   | 3K   | CHAIN.BAS    | (1) Menu program for arithmetic drills. |
| 37.4   | 2K   | CHAIN.INT    | (1) INT of above                        |
| 37.5   | 1K   | COMMON1.TXT  | (1) Part of arith. drill progs.         |
| 37.6   | 1K   | COMPILE.SUB  | (1) Compiles arith. drill progs         |
| 37.7   | 3K   | CPUPARTS.BAS | (4) Data table for MANPARTS             |
| 37.8   | 41K  | CRAPS.BAS    | (2) Very complete program               |
| 37.9   | 1K   | CRAPS.DOC    | (2) DOC on above                        |
| 37.10  | 19K  | CRAPS.INT    | (2) INT of above                        |
| 37.11  | 3K   | DEC1.BAS     | (1) Arithmetic drill                    |
| 37.12  | 2K   | DEC1.INT     | (1) INT of above                        |
| 37.13  | 2K   | DEC2.BAS     | (1) Arithmetic drill                    |
| 37.14  | 2K   | DEC2.INT     | (1) INT of above                        |
| 37.15  | 3K   | DEC3.BAS     | (1) Arithmetic drill                    |
| 37.16  | 2K   | DEC3.INT     | (1) INT of above                        |
| 37.17  | 3K   | DEC4.BAS     | (1) Arithmetic drill                    |
| 37.18  | 3K   | DEC4.INT     | (1) INT of above                        |
| 37.19  | 3K   | DEC5.BAS     | (1) Arithmetic drill                    |
| 37.20  | 3K   | DEC5.INT     | (1) INT of above                        |
| 37.21  | 3K   | DEC6.BAS     | (1) Arithmetic drill                    |
| 37.22  | 3K   | DEC6.INT     | (1) INT of above                        |
| 37.23  | 3K   | DECIMAL.BAS  | (1) Arithmetic drill                    |
| 37.24  | 2K   | DECIMAL.INT  | (1) INT of above                        |
| 37.25  | 2K   | DISK.PRN     | (2) More doc on CRAPS                   |
| 37.26  | 3K   | DISTANCE.BAS | (1) Metric conversions drill            |
| 37.27  | 3K   | DISTANCE.INT | (1) INT of above                        |
| 37.28  | 5K   | FORMULA.BAS  | (1) Drill formulas, volume, etc         |
| 37.29  | 4K   | FORMULA.INT  | (1) INT of above                        |
| 37.30  | 3K   | FRAC1.BAS    | (1) Arithmetic drill                    |
| 37.31  | 2K   | FRAC1.INT    | (1) INT of above                        |
| 37.32  | 3K   | FRAC2.BAS    | (1) Arithmetic drill                    |
| 37.33  | 2K   | FRAC2.INT    | (1) INT of above                        |
| 37.34  | 3K   | FRAC3.BAS    | (1) Arithmetic drill                    |
| 37.35  | 2K   | FRAC3.INT    | (1) INT of above                        |
| 37.37  | 3K   | FRAC4.BAS    | (1) Arithmetic drill                    |
| 37.37  | 2K   | FRAC4.INT    | (1) INT of above                        |
| 37.38  | 4K   | FRACTION.BAS | (1) Arithmetic drill                    |
| 37.39  | 3K   | FRACTION.INT | (1) INT of above                        |
| 37.40  | 1K   | GRADE.BAS    | (1) Arith drill grading program         |
| 37.41  | 1K   | HEADER.BAS   | (1) %Include for drill progs.           |
| 37.42  | 4K   | INTEGER.BAS  | (1) Arithmetic drill                    |
| 37.43  | 3K   | INTEGER.INT  | (1) INT of above                        |
| 37.44  | 13K  | JRN.L.BAS    | (3) Accounting program                  |
| 37.45  | 9K   | JRN.L.INT    | (3) INT of above                        |
| 37.46  | 1K   | MANPARTS.BAS | (4) Manufactured parts program          |

|       |    |              |                                                       |
|-------|----|--------------|-------------------------------------------------------|
| 37.47 | 3K | NEWFRAC2.BAS | (1) Arithmetic Drill program                          |
| 37.48 | 1K | PARTS.BAS    | (4) Parts list generator                              |
| 37.49 | 2K | PASSWORD.BAS | (5) Change BASIC keywords to<br>protect your programs |
| 37.50 | 3K | PERCENT.BAS  | (1) Arithmetic drill program                          |
| 37.51 | 2K | PERCENT.INT  | (1) INT of above                                      |
| 37.52 | 3K | VOLUME.BAS   | (1) Arithmetic drill program                          |
| 37.53 | 2K | VOLUME.INT   | (1) INT of above                                      |
| 37.54 | 3K | WEIGHT.BAS   | (1) Arithmetic drill program                          |
| 37.55 | 2K | WEIGHT.INT   | (1) INT of above                                      |
| 37.56 | 3K | WHOLE.BAS    | (1) Arithmetic drill program                          |
| 37.57 | 2K | WHOLE.INT    | (1) INT of above                                      |

## VOLUME 38

- (1) CP/M speed up utilities (and bios auto-reloc)  
 (2) Tarbell controller utilities

| NUMBER | SIZE | NAME         | COMMENTS                                                                     |
|--------|------|--------------|------------------------------------------------------------------------------|
|        |      | -CATALOG.038 | CONTENTS OF CP/M VOL. 38                                                     |
|        | 5K   | ABSTRACT.038 | Abstracts on some of the files.                                              |
| 38.1   | 5K   | BVBOOT.ASM   | (1) Boot for full sized..<br>Tarbell sys running BVIOS                       |
| 38.2   | 28K  | BVIOS.ASM    | (1) Compact BIOS allowing..<br>..Tarbell systems to not..<br>..be 1K smaller |
| 38.3   | 56K  | DFOCO.ASM    | (2) Double Density FOrmat and..                                              |
| 38.4   | 8K   | DFOCO.COM    | (2) ..COpy option for Tarbell..                                              |
| 38.5   | 20K  | DFOCO.DOC    | (2) ..and Delta disk cntrlrs                                                 |
| 38.6   | 1K   | DMSPATCH.ASM | (1) FAST patch for Digital..<br>..Micro Systems Drives                       |
| 38.7   | 1K   | DSCUSPAT.ASM | (1) FAST patch for Discus 2D                                                 |
| 38.8   | 20K  | FAST.ASM     | (1) Speed up transients via..                                                |
| 38.9   | 2K   | FAST.COM     | (1) track & dir. buffering.                                                  |
| 38.10  | 3K   | FASTNSTL.DOC | (1) FAST installation doc                                                    |
| 38.11  | 18K  | FMAN.PRN     | (1) FAST operations manual                                                   |
| 38.12  | 18K  | MACRO.LIB    | (2) Used by DFOCO                                                            |
| 38.13  | 1K   | MICROPAT.ASM | (1) FAST patch for Micropolis                                                |
| 38.14  | 15K  | PACKUP.ASM   | (1) Part of FAST                                                             |
| 38.15  | 4K   | REL.ASM      | (1) Relocation utility source                                                |
| 38.16  | 2K   | REL.UTL      | (1) Relocation utility                                                       |
| 38.17  | 2K   | RELCPM.DOC   | (1) Doc on relocation pgms                                                   |
| 38.18  | 1K   | RELCPM.SUB   | (1) Submit file for relocations                                              |
| 38.19  | 1K   | RELED.SUB    | (1) Submit file for relocations                                              |
| 38.20  | 2K   | RELHDR.ASM   | (1) Hdr for REL.UTL                                                          |
| 38.21  | 3K   | RSPEED.ASM   | (1) Routine to determine how..                                               |
| 38.22  | 1K   | RSPEED.COM   | (1) ..fast your disk reads,..<br>to set up SPEED, FAST                       |
| 38.23  | 1K   | SKEW2PAT.ASM | (1) Skew table patch for FAST                                                |
| 38.24  | 1K   | SKEW3PAT.ASM | (1) Skew table patch for FAST                                                |
| 38.25  | 2K   | SMAN.PRN     | (1) SPEED operations manual..<br>addendum to FMAN.PRN                        |
| 38.26  | 5K   | SPEED.COM    | (1) CCP replacement with<br>full track blocking etc.                         |
| 38.27  | 3K   | UTL.LIB      | (1) Macro library for reloc.                                                 |

## VOLUME 40

Various utilities, disk cataloging system, modem programs.

| NUMBER | SIZE | NAME         | COMMENTS                                                     |
|--------|------|--------------|--------------------------------------------------------------|
|        |      | -CATALOG.040 | CONTENTS OF CP/M VOL. 40                                     |
|        |      | ABSTRACT.040 | Abstract on some of the files.                               |
| 40.1   | 1K   | /.COM        | Quickie submit; Example:                                     |
| 40.2   | 1K   | /.DOC        | / asm foo.bb;load b:foo                                      |
| 40.3   | 1K   | ALLOC.COM    | Prints bit map of disk usage..                               |
| 40.4   | 1K   | ALLOC.DOC    | ..(update of prev 1.3 only one)                              |
| 40.5   | 37K  | BOOTER.ASM   | Pascal boot for Tarbell & Delta                              |
| 40.6   | 1K   | CAT.COM      | Part of master cataloging sys.                               |
| 40.7   | 1K   | CAT2.COM     | Part of master cataloging sys.                               |
| 40.8   | 5K   | CATALOG.DOC  | Doc on master cataloging system                              |
| 40.9   | 1K   | CK-FIX.COM   | File checksum program                                        |
| 40.10  | 1K   | CK-FIX.DOC   | DOC on above                                                 |
| 40.11  | 4K   | COMPARE.ASM  | See if two files match exactly<br>(Uses MAC and MAC's SEQIO) |
| 40.12  | 2K   | COMPARE.COM  | COM of above 'cause many macros                              |
| 40.13  | 8K   | CV.ASM       | Split screen VDM 2 file compare                              |
| 40.14  | 1K   | CV.COM       | ..(requires MAC for assembly)                                |
| 40.15  | 1K   | CV.DOC       | DOC on above                                                 |
| 40.16  | 1K   | D.COM        | Shows what files are different                               |
| 40.17  | 1K   | D.DOC        | ..on a disk from some prev time                              |
| 40.18  | 14K  | DI.ASM       | Directory listing program.<br>(req's MACRO.LIB from disk 38) |
| 40.19  | 2K   | DI.COM       | COM of above                                                 |
| 40.20  | 26K  | DU.ASM       | Disk utility: scan, patch, etc.                              |
| 40.21  | 4K   | DU.COM       | COM of above.                                                |
| 40.22  | 1K   | DU.DOC       | DOC of above                                                 |
| 40.23  | 1K   | EJECT.ASM    | "EJECT n" pages on CPM list dev                              |
| 40.24  | 1K   | FMAP.COM     | File map (standalone, and part<br>of cataloging system)      |
| 40.25  | 1K   | FMAP.DOC     |                                                              |
| 40.26  | 9K   | HEXDUMP.ASM  | Binary to Hex (RequiresTDL asm)                              |
| 40.27  | 1K   | MAST.CAT     | Sample master catalog                                        |
| 40.28  | 40K  | MODEM4.ASM   | Checksummed blocked file xfer                                |
| 40.29  | 7K   | MODEM4.DOC   | DOC on above. PMMI/Hayes/ser1                                |
| 40.30  | 3K   | NSBOOT.ASM   | Boot for National Semi 8221                                  |
| 40.31  | 12K  | NSCBIOS.ASM  | CBIOS for National Semi 8221                                 |
| 40.32  | 3K   | PBOOT.ASM    | Pascal boot loader for Tarbell                               |
| 40.33  | 5K   | PGEN.ASM     | Boot mods for 512 long sectors                               |
| 40.34  | 17K  | PMMIBYE3.ASM | Dial in remote console prog.                                 |
| 40.35  | 7K   | SPASCAL.DOC  | Sam Singer's PASCAL mods                                     |
| 40.36  | 2K   | UCAT.COM     | Update catalog program                                       |
| 40.37  | 3K   | VDMSAVE.ASM  | Write VDM lines to a file                                    |

## VOLUME 41

- (1) Ham radio programs
- (2) Chess program
- (3) VDM Pong program
- (4) Fortran least squares curve fitting program

| NUMBER | SIZE | NAME         | COMMENTS                                              |
|--------|------|--------------|-------------------------------------------------------|
|        |      | -CATALOG.041 | CONTENTS OF CP/M VOL. 41                              |
|        |      | ABSTRACT.041 | Abstracts on some files                               |
| 41.1   | 12K  | BMAINT.BAS   | (1) Ham maillist maint. BASIC/E                       |
| 41.2   | 12K  | BREPORT.BAS  | (1) Ham maillist report                               |
| 41.3   | 26K  | CHESS.COM    | (2) COM of 41.5                                       |
| 41.4   | 2K   | CHESS.DOC    | (2) DOC on chess program                              |
| 41.5   | 24K  | CHESS.FOR    | (2) Cromemco Z-80 Fortran Chess                       |
| 41.6   | 2K   | CODE.BAS     | (1) Simple Morse code receiver                        |
| 41.7   | 3K   | HAMPROGS.DOC | (1) Doc on BMAINT, BREPORT, RTTY, etc.                |
| 41.8   | 2K   | LABELS.BAS   | (1) Print return labels                               |
| 41.9   | 6K   | MOONLOC.DOC  | (1) Doc on 41.10-41.13 which                          |
| 41.10  | 3K   | MOONLOC1.BAS | are various versions of                               |
| 41.11  | 3K   | MOONLOC2.BAS | programs to locate the                                |
| 41.12  | 7K   | MOONLOC3.BAS | moon's position to do                                 |
| 41.13  | 5K   | MOONLOC5.BAS | moon bounces                                          |
| 41.14  | 8K   | MORSE.ASM    | (1) Morse send/receive prog.                          |
| 41.15  | 7K   | PONG.ASM     | (3) PONG for the VDM (re-release of CP/M U.G. 6.9)    |
| 41.16  | 8K   | PRACTICE.ASM | (1) Morse code teacher                                |
| 41.17  | 2K   | RANDTEXT.BAS | (1) Generate text for 41.16                           |
| 41.18  | 2K   | RESIZE.DOC   | (1) Part of ham maillist system                       |
| 41.19  | 5K   | RESIZE2.BAS  | (1) Part of ham maillist system                       |
| 41.20  | 5K   | RESIZE3.BAS  | (1) Part of ham maillist system                       |
| 41.21  | 26K  | RTTY.ASM     | (1) RTTY send receive program                         |
| 41.22  | 12K  | SSPLIB.FOR   | (4) Curve fitter/simultaneous linear equation solver. |
| 41.23  | 10K  | TEACH.ASM    | (1) Morse Code teaching prog.                         |
| 41.24  | 9K   | TTY.ASM      | (1) Baudot-coded-ASCII to ASCII                       |
| 41.25  | 5K   | TTYR.ASM     | (1) Variation of 41.24                                |
| 41.26  | 5K   | TTYR1.ASM    | (1) Variation of 41.24                                |
| 41.27  | 5K   | TTYX.ASM     | (1) Xmit ASCII via conversion to Baudot-coded-ASCII   |

## VOLUME 42

(1) Disassemblers;  
 (2) Diablo Driver;  
 (3) Clock routines;  
 ..and much more

| NUMBER | SIZE | NAME         | COMMENTS                                                                        |
|--------|------|--------------|---------------------------------------------------------------------------------|
|        |      | -CATALOG.042 | CONTENTS OF CP/M VOL. 42                                                        |
|        |      | ABSTRACT.042 | Abstracts on some of the files                                                  |
| 42.1   | 9K   | BIDI.ASM     | (2) Bidirect. diablo driver                                                     |
| 42.2   | 3K   | CLKROM.ASM   | (3) Computime(R) routines                                                       |
| 42.3   |      |              | Deleted                                                                         |
| 42.4   | 6K   | CT82.Z80     | TDL Z-80 source for above                                                       |
| 42.5   | 44K  | DIS.ASM      | (1) TDL Z-80 Disassembler                                                       |
| 42.6   | 5K   | DIS.DOC      | (1) Doc on above                                                                |
| 42.7   | 3K   | HOW2BS.DOC   | Put backspace into your BIOS                                                    |
| 42.8   | 2K   | INIT.TEL     | ZTEL-CT82 routines                                                              |
| 42.9   | 17K  | LIFE8.ASM    | Fast, comprehensive life..                                                      |
| 42.10  |      |              | Deleted                                                                         |
| 42.11  | 2K   | LIFE8.DOC    | Doc on above                                                                    |
| 42.12  | 27K  | MNEMONIC.ASM | Memory test (look up MNEMONIC<br>in your dictionary)                            |
| 42.13  | 7K   | NBIOS.ASM    | BIOS for TEI CP/M                                                               |
| 42.14  | 4K   | PTSRCNVT.ASM | Proc. Tech. Pkg. 1 or ALS-8..                                                   |
| 42.15  | 2K   | PTSRCNVT.COM | ..to CP/M file conversion..                                                     |
| 42.16  | 2K   | PTSRCNVT.DOC | ..program                                                                       |
| 42.17  | 13K  | QUOTES.PRN   | Words of wit and wisdom re-<br>lated to computers.                              |
| 42.18  | 6K   | RESOURCE.COM | (1) Conversational disassembler                                                 |
| 42.19  | 26K  | RESOURCE.DOC | (1) Doc on above                                                                |
| 42.20  | 5K   | START.ASM    | Compucolor 8001 initializer                                                     |
| 42.21  | 1K   | START.COM    | COM of above                                                                    |
| 42.22  | 2K   | T.ASM        | (3) Print time on console                                                       |
| 42.23  |      |              | Deleted                                                                         |
| 42.24  | 3K   | TIME.ASM     | (3) Compu-time (R) routine                                                      |
| 42.25  | 2K   | TIME.BAS     | (3) Time display in MBASIC                                                      |
| 42.26  | 5K   | TIMESSET.BAS | (3) Time set/read in MBASIC                                                     |
| 42.27  | 25K  | XT.ASM       | (3) List to printer with..                                                      |
| 42.28  | 2K   | XT.COM       | ..time/date stamp                                                               |
| 42.29  | 1K   | XYZZY.COM    | ÆÆType it and seeÆÆ (if you<br>don't know "Adventure", you<br>won't understand) |

## VOLUME 43

DESCRIPTION: OSBORNE CBASIC2 ACCOUNTS PAYABLE AND  
ACCOUNTS RECEIVABLE BUSINESS SOFTWARE PROGRAMS.

| NUMBER | SIZE | NAME         | COMMENTS                       |
|--------|------|--------------|--------------------------------|
|        |      | -CATALOG.043 | CONTENTS OF CP/M VOL. 43       |
| 43.1   | 1K   | A/P-INFO.BAS | Part of A/P-A/R Package.       |
| 43.2   | 1K   | A/P000.BAS   | "                              |
| 43.3   | 13K  | A/P010.BAS   | "                              |
| 43.4   | 4K   | A/P02A.BAS   | "                              |
| 43.5   | 6K   | A/P02B.BAS   | "                              |
| 43.6   | 12K  | A/P030.BAS   | "                              |
| 43.7   | 11K  | A/P040.BAS   | "                              |
| 43.8   | 6K   | A/P050.BAS   | "                              |
| 43.9   | 7K   | A/P060.BAS   | "                              |
| 43.10  | 11K  | A/P070.BAS   | "                              |
| 43.11  | 2K   | A/P080.BAS   | "                              |
| 43.12  | 11K  | A/P090.BAS   | "                              |
| 43.13  | 5K   | A/P110.BAS   | "                              |
| 43.14  | 10K  | A/P120.BAS   | "                              |
| 43.15  | 2K   | A/R-INFO.BAS | "                              |
| 43.16  | 1K   | A/R-INV.BAS  | "                              |
| 43.17  | 12K  | A/R010.BAS   | "                              |
| 43.18  | 5K   | A/R020.BAS   | "                              |
| 43.19  | 4K   | A/R03A.BAS   | "                              |
| 43.20  | 12K  | A/R03B.BAS   | "                              |
| 43.21  | 9K   | A/R040.BAS   | "                              |
| 43.22  | 11K  | A/R050.BAS   | "                              |
| 43.23  | 2K   | A/R060.BAS   | "                              |
| 43.24  | 9K   | A/R070.BAS   | "                              |
| 43.25  | 5K   | A/R080.BAS   | "                              |
| 43.26  | 2K   | A/RTAX.BAS   | "                              |
| 43.27  | 1K   | ABSTRACT.043 | Abstracts of A/P-A/R Programs. |
| 43.28  | 1K   | BINSEARC.BAS | Part of A/P-A/R Package.       |
| 43.29  | 10K  | CRTFM.BAS    | "                              |
| 43.30  | 2K   | CURSOR.BAS   | "                              |
| 43.31  | 2K   | FILEINIT.BAS | "                              |
| 43.32  | 1K   | G/L-INFO.BAS | "                              |
| 43.33  | 2K   | GENINFO.BAS  | "                              |
| 43.34  | 1K   | READCUST.BAS | "                              |
| 43.35  | 1K   | READINV.BAS  | "                              |
| 43.36  | 1K   | READVEND.BAS | "                              |
| 43.37  | 5K   | SUBS1.BAS    | "                              |
| 43.38  | 1K   | WRITCUST.BAS | "                              |
| 43.39  | 2K   | WRITEINV.BAS | "                              |
| 43.40  | 1K   | WRITEVND.BAS | "                              |

## VOLUME 44

## DESCRIPTION: CBASIC2 PROGRAMS

Osborne/McGraw-Hill General Ledger Programs.

Documented in: General Ledger, CBASIC  
OSBORNE/McGraw-Hill  
630 Bancroft Way  
Berkeley, CA. 94710

Don't seriously attempt to use these programs without  
the above documentation. See your local computer  
store, or some of the larger metropolitan book stores.

and from Pat Cunningham: Budget, Ledger Programs and ROBO Math Game.

| NUMBER | SIZE | NAME         | COMMENTS                                               |
|--------|------|--------------|--------------------------------------------------------|
|        |      | -CATALOG.044 | CONTENTS OF CP/M VOL. 44                               |
| 44.1   | 3K   | ABSTRACT.044 | Comments on contents of volume.                        |
| 44.2   | 2K   | ACCTFILE.BAS | Part of Osborne General Ledger.                        |
| 44.3   | 5K   | ANNTOT1.BAS  | Part of Cunningham Ledger.                             |
| 44.4   | 3K   | ANNTOT1.INT  | INT of above file.                                     |
| 44.5   | 1K   | BINSERCH.BAS | Part of Osborne General Ledger.                        |
| 44.6   | 12K  | BUDGET1.BAS  | Part of Cunningham Budget.                             |
| 44.7   | 2K   | BUDGET1.DOC  | DOC of above file.                                     |
| 44.8   | 6K   | BUDGET1.INT  | INT of above file.                                     |
| 44.9   | 5K   | BUDGETCH.BAS | Part of Cunningham Budget.                             |
| 44.10  | 2K   | BUDGETCH.INT | INT of above file.                                     |
| 44.11  | 1K   | CBAS.SUB     | SUBMIT file for compiling the<br>Osborne programs.     |
| 44.12  | 10K  | CRTFM.BAS    | CRT File Maint. Utility for<br>Osborne General Ledger. |
| 44.13  | 4K   | CRTFM.INT    | INT of above file.                                     |
| 44.14  | 2K   | CURSOR.BAS   | Part of Osborne General Ledger.                        |
| 44.15  | 2K   | EXP1980.TOT  | Cunningham Budget Data file.                           |
| 44.16  | 1K   | EXPENS80.JAN | Cunningham Budget Data file.                           |
| 44.17  | 1K   | FILEINIT.BAS | Utility for Osborne General Ledger.                    |
| 44.18  | 1K   | FILEINIT.INT | INT of above file.                                     |
| 44.19  | 2K   | G/L.DOC      | DOC on Osborne General Ledger.                         |
| 44.20  | 2K   | G/L-INFO.BAS | Part of Osborne General Ledger.                        |
| 44.21  | 1K   | G/L000.BAC   | "                                                      |
| 44.22  | 2K   | G/L000.INT   | "                                                      |
| 44.23  | 6K   | G/L010.BAS   | "                                                      |
| 44.24  | 4K   | G/L010.INT   | "                                                      |
| 44.25  | 6K   | G/L020.BAS   | "                                                      |
| 44.26  | 2K   | G/L020.INT   | "                                                      |
| 44.27  | 6K   | G/L030.BAS   | "                                                      |
| 44.28  | 5K   | G/L030.INT   | "                                                      |
| 44.29  | 9K   | G/L040.BAS   | "                                                      |
| 44.30  | 6K   | G/L040.INT   | "                                                      |
| 44.31  | 12K  | G/L050.BAS   | "                                                      |
| 44.32  | 6K   | G/L050.INT   | "                                                      |
| 44.33  | 5K   | G/L070.BAS   | "                                                      |
| 44.34  | 4K   | G/L070.INT   | "                                                      |
| 44.35  | 8K   | G/L080.BAS   | "                                                      |
| 44.36  | 5K   | G/L080.INT   | "                                                      |
| 44.37  | 1K   | GENINFO.BAS  | "                                                      |
| 44.38  | 7K   | LEDGER1.BAS  | Cunningham Ledger.                                     |
| 44.39  | 2K   | LEDGER1.DOC  | DOC of above file.                                     |
| 44.40  | 3K   | LEDGER1.INT  | INT of above file.                                     |

|       |    |              |                                 |
|-------|----|--------------|---------------------------------|
| 44.41 | 2K | POSTFILE.BAS | Part of Osborne General Ledger. |
| 44.42 | 3K | ROBO.BAS     | Cunningham Math Game.           |
| 44.43 | 1K | ROBO.DOC     | DOC of above file.              |
| 44.44 | 2K | ROBO.INT     | INT of above file.              |
| 44.45 | 5K | SUBS1.BAS    | Part of Osborne General Ledger. |
| 44.46 | 0K | TCGWQZ.TXT   | Collected Great Works of Zoso * |

\* one anonymous reviewers satirical opinion.

## VOLUME 45

DESCRIPTION: Osborne/McGraw-Hill Payroll  
with Cost Accounting

| NUMBER | SIZE | NAME         | COMMENTS                              |
|--------|------|--------------|---------------------------------------|
| 45.1   | 1K   | -CATALOG.045 | CONTENTS OF CP/M VOL. 45              |
| 45.2   | 2K   | ABSTRACT.045 | Abstract of CP/M Vol. 45              |
| 45.3   | 1K   | P/R.SUB      | SUBMIT file for CBAS2<br>compilation. |
| 45.4   | 2K   | P/R000.BAS   | Menu Program for P/R.                 |
| 45.5   | 5K   | P/R010.BAS   | Part of P/R.                          |
| 45.6   | 13K  | P/R020.BAS   | Part of P/R.                          |
| 45.7   | 3K   | P/R030.BAS   | Part of P/R.                          |
| 45.8   | 2K   | P/R040.BAS   | Part of P/R.                          |
| 45.9   | 10K  | P/R050.BAS   | Part of P/R.                          |
| 45.10  | 4K   | P/R06A.BAS   | Part of P/R.                          |
| 45.11  | 8K   | P/R06B.BAS   | Part of P/R.                          |
| 45.12  | 4K   | P/R070.BAS   | Part of P/R.                          |
| 45.13  | 2K   | P/R080.BAS   | Part of P/R.                          |
| 45.14  | 8K   | P/R090.BAS   | Part of P/R.                          |
| 45.15  | 9K   | P/R100.BAS   | Part of P/R.                          |
| 45.16  | 8K   | P/R110.BAS   | Part of P/R.                          |
| 45.17  | 3K   | P/R120.BAS   | Part of P/R.                          |
| 45.18  | 4K   | P/R130.BAS   | Part of P/R.                          |
| 45.19  | 6K   | P/R140.BAS   | Part of P/R.                          |
| 45.20  | 3K   | P/R150.BAS   | Part of P/R.                          |
| 45.21  | 2K   | P/R160.BAS   | Part of P/R.                          |
| 45.22  | 3K   | P/R170.BAS   | Part of P/R.                          |
| 45.23  | 8K   | P/R180.BAS   | Part of P/R.                          |
| 45.24  | 4K   | P/R190.BAS   | Part of P/R.                          |
| 45.25  | 7K   | P/R200.BAS   | Part of P/R.                          |
| 45.26  | 9K   | P/R210.BAS   | Part of P/R.                          |
| 45.27  | 6K   | P/R220.BAS   | Part of P/R.                          |
| 45.28  | 5K   | P/R230.BAS   | Part of P/R.                          |
| 45.29  | 9K   | P/R240.BAS   | Part of P/R.                          |
| 45.30  | 3K   | P/R250.BAS   | Part of P/R.                          |
| 45.31  | 3K   | P/R260.BAS   | Part of P/R.                          |
| 45.32  | 6K   | P/R270.BAS   | Part of P/R.                          |
| 45.33  | 15K  | P/R280.BAS   | Part of P/R.                          |
| 45.34  | 4K   | P/R290.BAS   | Part of P/R.                          |
| 45.35  | 10K  | P/R291.BAS   | Part of P/R.                          |
| 45.36  | 11K  | P/R300.BAS   | Part of P/R.                          |
| 45.37  | 5K   | P/R310.BAS   | Part of P/R.                          |
| 45.38  | 3K   | P/R320.BAS   | Part of P/R.                          |
| 45.39  | 7K   | P/R321.BAS   | Part of P/R.                          |
| 45.40  | 6K   | P/R330.BAS   | Part of P/R.                          |
| 45.41  | 3K   | P/R340.BAS   | Part of P/B.                          |

VOLUME 46 10/24/80

DESCRIPTION: CP/M utilities.

| NUMBER | SIZE | NAME         | COMMENTS                                             |
|--------|------|--------------|------------------------------------------------------|
|        | 2K   | -CATALOG.046 | CONTENTS OF CP/M VOL. 46                             |
| 46.1   | 11K  | ABSTRACT.046 | Volume abstracts                                     |
| 46.2   | 11K  | CPM-FDOS.ASM | CPM to ICOM FDOS II transfer                         |
| 46.3   | 17K  | CPMLABEL.BAS | Make CPMUG disk labels                               |
| 46.4   | 0K   | DELETED      |                                                      |
| 46.5   | 5K   | CPMLABEL.DOC | DOC on above                                         |
| 46.6   | 8K   | CRCK3.ASM    | Full 16 bit CRC a file                               |
| 46.7   | 1K   | CRCK3.COM    | COM of above                                         |
| 46.8   | 16K  | DU-8/12.ASM  | Disk dump/patch, supports many controllers.          |
| 46.9   | 29K  | DU-V61.ASM   | Later version of CPMUG 40.20, single density only    |
| 46.10  | 2K   | DU/MAP.DOC   | Doc. on CP/M directory format                        |
| 46.11  | 6K   | FDOS-CPM.ASM | ICOM FDOS II to CP/M transfer                        |
| 46.12  | 10K  | MDIR8/17.ASM | Fancy directory list program,                        |
| 46.13  | 1K   | MDIR8/17.COM | CP/M 1.4 (or 2.X, all users)                         |
| 46.14  | 6K   | MLIST3.ASM   | Type multiple files with lots of disk buffering      |
| 46.15  | 20K  | PLINK823.ASM | Send/Rcv to memory via modem                         |
| 46.16  | 22K  | PMMIBYE5.ASM | Remote console program,                              |
| 46.17  | 3K   | PMMIBYE5.DOC | update of 40.34                                      |
| 46.18  | 2K   | PTSRCNVT.COM | Convert Proc. Tech to CP/M ASM                       |
| 46.19  | 2K   | PTSRCNVT.DOC | DOC on above                                         |
| 46.20  | 7K   | RETDL.COM    | Disassembler to TDL mnemonics, modification of 42.18 |
| 46.21  | 13K  | SURVEY3.ASM  | Maps system memory/port usage as well as disk stat.  |
| 46.22  | 1K   | SURVEY3.COM  | COM of above                                         |
| 46.23  | 20K  | XD-7/4.ASM   | Fancy directory list program                         |
| 46.24  | 2K   | XD-7/4.COM   | COM of above                                         |
|        |      | U-G-FORM.LIB | CPMUG submission form                                |

## VOLUME 47

DESCRIPTION: CP/M Utility Disk. \*

| NUMBER | SIZE | NAME         | COMMENTS                                                        |
|--------|------|--------------|-----------------------------------------------------------------|
|        |      | CATALOG.47   | CONTENTS OF CP/M VOL. 47                                        |
| 47.1   | 7K   | ABSTRACT.047 | Abstracts and reviews.                                          |
| 47.2   | 10K  | BMAP7/11.ASM | Bit Map program.                                                |
| 47.3   | 22K  | COPYFAST.ASM | Revision of Tarbell's COPY.ASM.                                 |
| 47.4   | 2K   | COPYFAST.COM | COM of above.                                                   |
| 47.5   | 18K  | CYBER.ASM    | Bob Van Valzah's Modem program with buffering to Diablo Hytype. |
| 47.6   | 22K  | DIAL6/23.ASM | Modem program with autodial for PMMI.                           |
| 47.7   | 2K   | DIAL6/23.DOC | DOC of above.                                                   |
| 47.8   | 8K   | DIRS9/8.ASM  | Sorted directory program.                                       |
| 47.9   | 3K   | FLIP3.ASM    | Flips Answer/Originate mode under BYE.COM.                      |
| 47.10  | 14K  | MODEM.LIB    | Maclib library for MODEM7.                                      |
| 47.11  | 43K  | MODEM7.ASM   | Latest and greatest revision of Ward's "universal" MODEM.ASM.   |
| 47.12  | 8K   | MODEM7.COM   | COM of above.                                                   |
| 47.13  | 16K  | MODEM7.DOC   | DOC of above.                                                   |
| 47.14  | 3K   | MODEM7.SET   | Instructions for patching COM file if you don't have MAC*.      |
| 47.15  | 13K  | PROM.ASM     | Promburner program for the SSM PB1.                             |
| 47.16  | 7K   | UCOPY.ASM    | Bob Van Valzah's version of the Tarbell COPY program.           |

\* MAC and CP/M are trademarks of Digital Research, Pacific Grove, CA.

VOLUME 48            National CP/M Users Group  
                       (CP/M is a trademark of Digital Research, Inc)

DESCRIPTION:        The BDS C Sampler Disk  
                       November 29, 1980

Compiled by Leor Zolman, BD Software

- Manual for BDS-C to give you a "flavor" of the compiler
- Good programming examples in C
- Interesting games to play
- Good use of H19-H89 (Programs with <H> are H19-H89 only)

Most files are included in .COM form to allow you to execute them without having BDS-C. Be careful of RALLY.COM as it needs to do hard-coded I/O to detect console OUT status.

| NUMBER | SIZE | NAME         | COMMENTS                                          |
|--------|------|--------------|---------------------------------------------------|
|        | 3K   | -CATALOG.048 | CONTENTS OF CP/M VOL. 48                          |
|        | 6K   | ABSTRACT.048 | Abstracts of the programs                         |
| 48.1   | 17K  | BDS-C.DOC    | BDS-C users manual (*)                            |
| 48.2   | 7K   | BDSCIO.H     | The standard library used to compile the programs |
| 48.3   | 8K   | BUGS.C       | <H> makes things crawl                            |
| 48.4   | 11K  | BUGS.COM     | around on your screen                             |
| 48.5   | 9K   | HLIFE.C      | <H> H19/H89 version of 48.9                       |
| 48.6   | 8K   | HLIFE.COM    | <H>       "       "       ".10                    |
| 48.7   | 13K  | HSTONE.C     | <H> "Awari" game program -                        |
| 48.8   | 12K  | HSTONE.COM   | "       "                                         |
| 48.9   | 9K   | LIFE.C       | Good implementation of Conway's                   |
| 48.10  | 8K   | LIFE.COM     | LIFE algorithm                                    |
| 48.11  | 5K   | MM.C         | Mastermind interesting guessing                   |
| 48.12  | 7K   | MM.COM       | game. Try it and see                              |
| 48.13  | 11K  | OTHELLO.C    | Game program                                      |
| 48.14  | 12K  | OTHELLO.COM  | "                                                 |
| 48.15  | 7K   | PPONG.C      | <H> "Polish Pong" bounce the                      |
| 48.16  | 7K   | PPONG.COM    | ball off "/" and "0"                              |
| 48.17  | 8K   | PRESSUP.C    | Game program                                      |
| 48.18  | 8K   | PRESSUP.COM  | "       "                                         |
| 48.19  | 1K   | R2.MAP       | <H> map for rally game                            |
| 48.20  | 10K  | RALLY.C      | <H> road rally arcade game                        |
| 48.21  | 10K  | RALLY.COM    | <H> .COM of 48.20, but...                         |
|        |      | ===== --->   | Caution!! Hard-coded I/O req'd                    |
| 48.22  | 2K   | RALLY.MAP    | <H> another map for 48.21                         |
| 48.23  | 10K  | STONE.C      | "Awari" game with "very smart                     |
| 48.24  | 9K   | STONE.COM    | computer" opponent                                |
| 48.25  | 2K   | TABIFY.C     | Turn multiple spaces into                         |
| 48.26  | 6K   | TABIFY.COM   | proper CP/M tabs                                  |
| 48.27  | 7K   | TTT.C        | Tic-Tac-Toe that "exhaustively"                   |
| 48.28  | 6K   | TTT.COM      | tests for best move                               |
| 48.29  | 3K   | VOLUME48.DOC | Leor's own comments                               |

(\*) The original was 22K, but "TABIFY" deleted 5K of spaces!!

## VOLUME 49

DESCRIPTION: FORTRAN, RATIONAL FORTRAN PROGRAMS.  
CDOS ROUTINES FOR CP/M.

| NUMBER | SIZE | NAME         | COMMENTS                                                |
|--------|------|--------------|---------------------------------------------------------|
|        |      | -CATALOG.049 | CONTENTS OF CP/M VOL. 49                                |
| 49.1   | 4K   | 4FDCBIOS.DOC | Files for running CP/M 2.0+                             |
| 49.2   | 2K   | 4FDCBIOS.HEX |                                                         |
| 49.3   | 13K  | 4FDCBIOS.Z80 | on CDOS systems using this                              |
| 49.4   | 1K   | 4FDCBOOT.HEX |                                                         |
| 49.5   | 2K   | 4FDCBOOT.Z80 | BIOS and BOOT.                                          |
| 49.6   | 11K  | ABSTRACT.049 | Abstracts of the files on this disk.                    |
| 49.7   | 1K   | ASMDEF.RAT   | Used by LCAT, part of RATFOR.                           |
| 49.8   | 6K   | ASTRO.FOR    | FORTRAN Astronomy program.                              |
| 49.9   | 10K  | CDOS.DOC     | Comments on CDOS features.                              |
| 49.10  | 2K   | CDOSCOPY.COM | Full disk copy program                                  |
| 49.11  | 2K   | CDOSCOPY.DOC | for CDOS systems,                                       |
| 49.12  | 4K   | CDOSCOPY.HEX | single or double                                        |
| 49.13  | 26K  | CDOSCOPY.PRN | density, and single                                     |
| 49.14  | 12K  | CDOSCOPY.Z80 | or double sided.                                        |
| 49.15  | 1K   | CONSTS.RAT   | Definitions of some frequently used constants (RATFOR). |
| 49.16  | 1K   | F77.DOC      | FORTRAN 77 Documentation.                               |
| 49.17  | 1K   | F77DEF.RAT   | FORTRAN 77 Functions.                                   |
| 49.18  | 2K   | F77LIB.FOR   | Definitions of some intrinsic FORTRAN 77 functions.     |
| 49.19  | 3K   | FILTER.Z80   | Source code for emulating CDOS                          |
| 49.20  | 1K   | FILTER.HEX   | calls under standard CP/M.                              |
| 49.21  | 6K   | FILTER2.Z80  | Modified version of FILTER                              |
| 49.22  | 1K   | FILTER2.HEX  | (above)                                                 |
| 49.23  | 2K   | INDEX.Z80    | RATFOR Subroutine.                                      |
| 49.24  | 1K   | INDEXT.FOR   | Test for INDEX.Z80.                                     |
| 49.25  | 1K   | IOER.Z80     | Used by LCAT (RATFOR).                                  |
| 49.26  | 1K   | LCAT.DOC     | Used to concatenate Microsoft                           |
| 49.27  | 3K   | LCAT.RAT     | .REL files.                                             |
| 49.28  | 2K   | MINV.DOC     | Matrix Inversion Determinant                            |
| 49.29  | 3K   | MINV.FOR     | Calculator, FORTRAN and                                 |
| 49.30  | 3K   | MINV.RAT     | RATFOR source code.                                     |
| 49.31  | 2K   | RATCOMNS.RAT | Used by RATFOR.                                         |
| 49.32  | 3K   | RATFOR.DOC   | Documentation of RATFOR.                                |
| 49.33  | 40K  | RATFOR.FOR   | FORTRAN source code for RATFOR.                         |
| 49.34  | 25K  | RATFOR.RAT   | RATFOR source code for RATFOR.                          |
| 49.35  | 17K  | RATFOR.REL   | Microsoft .REL file, does not include library routines. |
| 49.36  | 1K   | READLB.Z80   | Subroutine for SCOPY (RATFOR).                          |
| 49.37  | 1K   | RFG.COM      | CDOS equivalent of a submit file. (^=\$).               |
| 49.38  | 1K   | SCOPY.DOC    | Direct Disk I/O (RATFOR).                               |
| 49.39  | 2K   | SCOPY.FOR    | FORTRAN source code.                                    |
| 49.40  | 1K   | SORTI.DOC    | Quicksort program (RATFOR).                             |
| 49.41  | 2K   | SORTI.FOR    | FORTRAN Source code.                                    |
| 49.42  | 3K   | SORTI.RAT    | RATFOR Source code.                                     |
| 49.43  | 1K   | TRNSLT.Z80   | Used by RATFOR.                                         |

NOTE: Most of the FORTRAN files on this disk will run on Z-80 processors only, some will run only with Cromemco CDOS. Check the abstracts and .DOC files for more details.

## CP/MUG: VOLUME 50

DESCRIPTION: Bob Van Valzah's "Pascal Pascal Compiler" & a few miscellaneous programs for printing via UNIX.

| NUMBER | SIZE | NAME                       | COMMENTS                                                                           |
|--------|------|----------------------------|------------------------------------------------------------------------------------|
|        |      | -CATALOG.050<br>UGFORM.LIB | CONTENTS OF CP/M VOL. 50<br>SUBMITTAL FORM                                         |
| 50.1   | 1K   | A.OCO                      | Sample program, eight queens problem, ready to be linked to RTP.COM (OCO=obj code) |
| 50.2   | 1K   | A.PCO                      | Sample program P-code, ready for PFET.COM                                          |
| 50.3   | 5K   | ABSTRACT.050               | Abstracts for this volume.                                                         |
| 50.4   | 2K   | COMPARE.COM                | Vital program for compiler writers.                                                |
| 50.5   | 2K   | CPMDIR.C                   | Prints CP/M DIR on UNIX.                                                           |
| 50.6   | 2K   | CRCK.COM                   | CRC program for validating files on this disk.                                     |
| 50.7   | 2K   | CRCKLIST.CRC               | CRC list of files on this disk.                                                    |
| 50.8   | 3K   | DISK.DOC                   | Bob's comments.                                                                    |
| 50.9   | 3K   | EQ.COM                     | Prints all solutions to the eight queens problem.                                  |
| 50.10  | 2K   | EQ.PAS                     |                                                                                    |
| 50.11  | 5K   | FROMCPM.C                  | Print CP/M file via UNIX stdout.                                                   |
| 50.12  | 1K   | FWD.PAS                    | Forward Procedure Declarations.                                                    |
| 50.13  | 6K   | HW5.COM                    | Builds optimal binary search tree & decodes a message.                             |
| 50.14  | 15K  | HW5.PAS                    |                                                                                    |
| 50.15  | 1K   | HW5DATA.                   | Sample data for above program.                                                     |
| 50.16  | 6K   | PASYNTEX.DOC               | Syntax graphs for PPC compiler.                                                    |
| 50.17  | 1K   | PC.SUB                     | Submit file to compile a PPC program.                                              |
| 50.18  | 7K   | PFET.COM                   | Object code of Pcode to 8080 translator.                                           |
| 50.19  | 11K  | PFET.PAS                   | Source of above.                                                                   |
| 50.20  | 1K   | PHONE.C                    | C program to print words you can spell with your phone #.                          |
| 50.21  | 1K   | PLAYDATA.                  | Sample data for above program.                                                     |
| 50.22  | 13K  | PLAYKAL.PAS                | PPC program to determine best moves in game of Kalah.                              |
| 50.23  | 2K   | POPS.DOC                   | DOC for Pcodes used by PPC.                                                        |
| 50.24  | 1K   | POWTWO.PAS                 | PPC Program to print negative powers of two.                                       |
| 50.25  | 16K  | PPC.COM                    | Pascal Pascal Compiler.                                                            |
| 50.26  | 10K  | PPC.DOC                    | DOC for above file.                                                                |
| 50.27  | 26K  | PPC.PAS                    | Pascal source for above file.                                                      |
| 50.28  | 2K   | PSTACK.DOC                 | DOC on run-time P-machine stack.                                                   |
| 50.29  | 3K   | REGEN.DOC                  | Notes on how to modify & compile PPC.PAS.                                          |
| 50.30  | 11K  | RTP.ASM                    | Source for run-time package.                                                       |
| 50.31  | 2K   | RTP.COM                    | Object of above.                                                                   |
| 50.32  | 1K   | STIRLING.PAS               | Prints a table of Stirling Numbers.                                                |
| 50.33  | 4K   | TESTER.PAS                 | Tests functionality of PPC.                                                        |
| 50.34  | 1K   | VALIDATE.SUB               | Submit file to make sure you have a "fertile" computer.                            |

## VOLUME 51 The CP/M Users Group

## DESCRIPTION: STAGE2 MACRO PROCESSOR

By: Dick Curtiss  
843 NW 54th  
Seattle, WA 98107

<<Congratulations to Dick for a superb User's group contribution: A major work, well documented, good examples, a good reference book, etc.>>

STAGE2 is a macro programming language, documented sufficiently on this disk to effectively use it. Examples given include a library of extensions for assembler programming, (ALX) including WHILE, REPEAT, IF, BRANCH (a CASE statement), etc. STAGE2 is a general-purpose text-replacement processor, not limited to programming language applications. Those interested in transporting it to other machines, or in studying its background and implementation will want to purchase:

"Software Tools for Non-Numeric Applications"

by: Wm. M. Waite

from: Prentice Hall, Inc.

| NUMBER | SIZE | NAME         | COMMENTS                                                                 |
|--------|------|--------------|--------------------------------------------------------------------------|
|        |      | CATALOG.051  | CONTENTS OF CP/M VOL. 51                                                 |
| 51.1   | 2K   | ABSTRACT.051 | Overview of volume                                                       |
| 51.2   | 16K  | ALX.S2M      | Assembly Language Extension macros                                       |
| 51.3   | 3K   | ALX-.DOC     | Doc on above                                                             |
| 51.4   | 3K   | ALXTEST.ALX  | Sample macros to test above, including errors to be detected.            |
|        |      | ALXTEST.ALX  |                                                                          |
| 51.5   | 4K   | CIO.ALX      | Console I/O routines in ALX                                              |
| 51.6   | 2K   | CRCK.COM     | Keith Petersen's program to CRC check files                              |
| 51.7   | 1K   | CRCKLIST.CRC | Contains the CRCs for all files on this disk. (except itself)            |
| 51.8   | 2K   | DEMO.S2M     | Interactive STAGE2 demo macros.                                          |
| 51.9   | 17K  | DISKIO2.SRC  | (*) disk I/O for STAGE2 processor                                        |
| 51.10  | 6K   | DISKIO2-.DOC | (*) DOC on above                                                         |
| 51.11  | 5K   | FLD1.DAT     | (*) Sample data for FLUB test                                            |
| 51.12  | 4K   | FLD2.DAT     | (*) "                                                                    |
| 51.13  | 13K  | FLT1.FLB     | (*) Sample program for FLUB test                                         |
| 51.14  | 11K  | FLT2.FLB     | (*) "                                                                    |
| 51.15  | 1K   | FLUB\$.SUB   | (*) Submit file for FLT1, FLT2, STG2.                                    |
| 51.16  | 4K   | FLUB8080.S2M | (*) Macros to turn FLUB into 8080 asm                                    |
| 51.17  | 3K   | HELP.DOC     | First-timer's "to do" list.                                              |
| 51.18  | 2K   | IMPL.DOC     | (*) Notes on implementing STAGE2                                         |
| 51.19  | 2K   | INTERACT.S2M | Another macro demo.                                                      |
| 51.20  | 22K  | INTRO.DOC    | Sufficient info to "read" STAGE2 macros, and with diligence, write them. |
| 51.22  | 1K   | IOOP\$.SUB   | (*) submit file for macro pass + asm of above                            |
| 51.21  | 16K  | IOOP.SRC     | (*) I/O processor 8080 source                                            |
| 51.23  | 1K   | MEMORY.INP   | Another macro demo.                                                      |
| 51.24  | 2K   | ST2T.DAT     | (*)                                                                      |
| 51.25  | 12K  | STAGE2.COM   | The executable macro processor itself.                                   |
| 51.26  | 48K  | STG2.FLB     | (*) Source for STAGE2 in FLUB code                                       |
| 51.27  | 5K   | STG2MATH.ASM | (*) STAGE2 support routines                                              |

|       |    |              |                                             |   |
|-------|----|--------------|---------------------------------------------|---|
| 51.28 | 5K | STG2SUP.ASM  | (*)                                         | " |
| 51.29 | 8K | TERM.ALX     | Sample 8080 terminal program w/ALX macros.  |   |
| 51.30 | 3K | TERMSUP.ASM  | Subroutines for TERM.ALX                    |   |
| 51.31 | 2K | USE.DOC      | How to execute STAGE2.                      |   |
| 51.32 | 6K | VDB.ALX      | TDL video driver in ALX, a "state machine". |   |
| 51.33 | 5K | VOLUME51.DOC | Dick Curtiss' own excellent documentation.  |   |

(\*) Files are necessary only to change STAGE2.

NOTE: Included on this volume for the first time, is a file of CRC's for each file. Thus people that are concerned that a copy went wrong somewhere, can check the CRC of the file, and compare it to the one stored in CRCKLIST.CRC.

Thanks to Keith Petersen for this excellent program.

## CP/M USERS' GROUP LIBRARY: VOLUME 52

DESCRIPTION: 1. COPYFAST Version 3.5 by Chuck Weingart  
2. BATCH/VARBATCH by Daniel Ross

| NUMBER | SIZE | NAME         | COMMENTS                                              |
|--------|------|--------------|-------------------------------------------------------|
|        |      | -CATALOG.052 | CONTENTS OF CP/M VOL. 52.                             |
|        |      | ABSTRACT.052 | Abstracts of files on this disk.                      |
|        |      | CRCK.COM     | CRC program (see abstracts).                          |
| 52.1   | 12K  | BATCH.1      | SIL80 source for BATCH.                               |
| 52.2   | 10K  | BATCH.3      | SIL80 source for BATCH.                               |
| 52.3   | 2K   | BATCH.COM    | Object file of above.                                 |
| 52.4   | 1K   | BATCH.CTL    | Control table for batch.                              |
| 52.5   | 5K   | BATCH.HEX    | Hex file of above code.                               |
| 52.6   | 35K  | BATCH.RM     | Batch Reference Manual (.DOC).                        |
| 52.7   | 21K  | BATCH.SYM    | Batch Symbol Table.                                   |
| 52.8   | 2K   | CPYFST35.ABS | Chuck's comments on Copyfast.                         |
| 52.9   | 26K  | CPYFST35.ASM | Source code for COPYFAST.                             |
| 52.10  | 28K  | CPYFST35.DOC | Documentation for COPYFAST.                           |
| 52.11  | 2K   | CPYFST3F.COM | Object of above, fast disks.                          |
| 52.12  | 2K   | CPYFST3M.COM | Object of above, medium disks.                        |
| 52.13  | 2K   | CPYFST3S.COM | Object of above, slow disks.                          |
| 52.14  | 1K   | CRCKLIST.CRC | CRC list of programs on this disk.                    |
| 52.15  | 2K   | EXAMPLE.BAT  | Sample BATCH file.                                    |
| 52.16  | 23K  | VARBATCH.1   | SIL80 source for VARBATCH.<br>(BATCH with variables). |
| 52.17  | 10K  | VARBATCH.3   | SIL80 source for VARBATCH.                            |
| 52.18  | 3K   | VARBATCH.COM | Object of above.                                      |
| 52.19  | 1K   | VARBATCH.CTL | Control table of above.                               |
| 52.20  | 7K   | VARBATCH.HEX | Hex file of above.                                    |
| 52.21  | 29K  | VARBATCH.SYM | Symbol table of above.                                |

VARBATCH is documented in BATCH.RM (Reference Manual).

COPYFAST is documented in the .ASM files.

## VOLUME 53

DESCRIPTION: BDS-C Users group "original" Adventure disk.

This is the "original" Crowther/Woods adventure, converted into BDS-C by Jay R. Jaeger, and updated for V 1.43 by L.C Calhoun.

We thank Robert Ward, and the BDS-C Users group for this entire volume contribution.

| NUMBER | SIZE | NAME         | COMMENTS                           |
|--------|------|--------------|------------------------------------|
|        |      | -CATALOG.053 | CONTENTS OF CP/M VOL. 053          |
| 53.1   | 1K   | ADVCOMP.SUB  | These files are                    |
| 53.2   | 5K   | ADVENT.C     | fully explained                    |
| 53.3   | 10K  | ADVENT.COM   | in "CATALOG.DOC",                  |
| 53.4   | 5K   | ADVENT.CRL   | and appear here                    |
| 53.5   | 6K   | ADVENT.H     | merely to get                      |
| 53.6   | 18K  | ADVENT1.DAT  | "official numbers".                |
| 53.7   | 7K   | ADVENT2.DAT  |                                    |
| 53.8   | 7K   | ADVENT3.DAT  |                                    |
| 53.9   | 4K   | ADVENT4.DAT  |                                    |
| 53.10  | 6K   | ADVENT5.DAT  |                                    |
| 53.11  | 18K  | ADVENT6.DAT  |                                    |
| 53.12  | 1K   | ADVLINK.SUB  |                                    |
| 53.13  | 2K   | CATALOG.DOC  |                                    |
| 53.14  | 7K   | DATABASE.C   |                                    |
| 53.15  | 5K   | DATABASE.CRL |                                    |
| 53.16  | 1K   | EADVENT.C    |                                    |
| 53.17  | 24K  | EADVENT.COM  |                                    |
| 53.18  | 1K   | EADVENT.CRL  |                                    |
| 53.19  | 3K   | ENGLISH.C    |                                    |
| 53.20  | 2K   | ENGLISH.CRL  |                                    |
| 53.21  | 3K   | ENVIRON.DOC  |                                    |
| 53.22  | 4K   | ITVERB.C     |                                    |
| 53.23  | 3K   | ITVERB.CRL   |                                    |
| 53.24  | 1K   | MKADVENT.SUB |                                    |
| 53.25  | 1K   | MKEADVEN.SUB |                                    |
| 53.26  | 1K   | MKSAVEAD.SUB |                                    |
| 53.27  | 1K   | READ.ME      |                                    |
| 53.28  | 1K   | SAVEADV.C    |                                    |
| 53.29  | 7K   | SAVEADV.COM  |                                    |
| 53.30  | 2K   | SAVEADV.CRL  |                                    |
| 53.31  | 14K  | TURN.C       |                                    |
| 53.32  | 10K  | TURN.CRL     |                                    |
| 53.33  | 13K  | VERB.C       |                                    |
| 53.34  | 8K   | VERB.CRL     |                                    |
|        |      | CRCK.COM     | Program to check CRC of each file. |
|        |      | CRCKLIST.CRC | List of CRC's for all files.       |

If you suspect your copy of this disk is bad, run CRCK \*.\* and compare the CRC's against the ones in CRCKLIST.CRC. If you want to create a new file, use CRCK \*.\* F but be aware it will overwrite CRCKLIST.CRC which should probably have been renamed to something else.

## VOLUME 54

DESCRIPTION: Xitan Disk Basic:  
 1. Games  
 2. CAI programs

Many of the games found here were contributed to the CPMUG by William P. Ruf of Kansas. The files were reviewed and abstracted by Jim Kennedy of CACHE (the Chicago Area Computer Hobbyist Exchange), who also made some corrections to some programs, or, in some cases, pointed out the known bugs in some of these programs for users to de-bug. Jim also contributed his own "typing drill" program, TDRILL.BAS. These programs are written (or modified) for Xitan Disk Basic, but some will run under MBASIC without modification, and some require only slight modification.

I regret that not all of these programs run correctly as provided, but the ones that do not are marked in the catalog below, or the abstract, or both. Some draw pictures on your screen and the TDL video board may be required for those programs. It is not normally the policy of the CP/M UG to release buggy programs, but I felt that, in this case, if the programs were released, some of our users might de-bug and re-submit these programs for future volumes.

Jim Mills, CPMUG reviewer

| NUMBER | SIZE | NAME         | COMMENTS                                                        |
|--------|------|--------------|-----------------------------------------------------------------|
|        |      | -CATALOG.054 | CONTENTS OF CP/M VOL. 54.                                       |
|        |      | ABSTRACT.054 | Abstracts of programs.                                          |
|        |      | CRCK.COM     | CRC filecheck program.                                          |
|        |      | CRCKLIST.054 | List of CRC's of files.                                         |
| 54.1   | 3K   | 1CHECK.BAS   | Solitaire checker puzzle.                                       |
| 54.2   | 2K   | ALFABET2.BAS | Interactive alphabetizing,<br>de-bugged and expanded.           |
| 54.3   | 1K   | ALFABET1.BAS | Original bugged version.                                        |
| 54.4   | 2K   | ARITH.BAS    | Simple addition and subtraction for<br>elementary students.     |
| 54.5   | 4K   | BIOCAL.BAS   | Biorythmic calendar (Bugs).                                     |
| 54.6   | 8K   | BLKJAC.BAS   | Blackjack (21) game.                                            |
| 54.7   | 3K   | BOMBER.BAS   | WW2 Bomber game.                                                |
| 54.8   | 2K   | BOUNCE.BAS   | Plots a bouncing ball.                                          |
| 54.9   | 7K   | BUG.BAS      | "Draw Bugs faster than your<br>computer" game.                  |
| 54.10  | 2K   | BULCOW.BAS   | Buggy program, number guessing game.                            |
| 54.11  | 7K   | BUNNY.BAS    | Draws a "bunny" on your CRT.                                    |
| 54.12  | 3K   | BUZZWD.BAS   | Selects a list of "buzzwords".                                  |
| 54.13  | 4K   | CHASE.BAS    | High Voltage survival game.                                     |
| 54.14  | 6K   | CHASE2.BAS   | Not related to above game.<br>Construct and maneuver in a maze. |
| 54.15  | 3K   | CHOMP.BAS    | Eat pieces of a cookie,<br>last piece loses (NIM?).             |
| 54.16  | 3K   | CRAPS.BAS    | Standard Nevada table rules.                                    |
| 54.17  | 5K   | CUBE.BAS     | Get thru the cube & win a bet.                                  |
| 54.18  | 3K   | DEFUSE.BAS   | Find and defuse the bomb before...                              |
| 54.19  | 1K   | DIAMND.BAS   | Fills screen with diamond shapes<br>that spell DEC.             |

|       |     |              |                                                                      |
|-------|-----|--------------|----------------------------------------------------------------------|
| 54.20 | 3K  | DRAW.BAS     | Buggy program -- see abstract.                                       |
| 54.21 | 2K  | DRINKS.BAS   | "How to mix drinks", see abstract.                                   |
| 54.22 | 3K  | FISHING.BAS  | Catch fish in a lake, avoid hazards, a mini-adventure game.          |
| 54.23 | 9K  | FOOTBL.BAS   | Standard professional rules, except no penalties.                    |
| 54.24 | 2K  | FRACT.BAS    | Fraction mathematics.                                                |
| 54.25 | 1K  | GRAFIT.BAS   | Some kind of student plotting program.                               |
| 54.26 | 2K  | GUNNER.BAS   | Fire a field artillery weapon, bugs.                                 |
| 54.27 | 6K  | HOCKEY.BAS   | For hockey fans.                                                     |
| 54.28 | 4K  | HORSES.BAS   | Place your bets on the horse races.                                  |
| 54.29 | 1K  | INTEREST.BAS | Calculates simple and compound interest.                             |
| 54.30 | 10K | KING.BAS     | Land & Resources Management game.                                    |
| 54.31 | 2K  | LITQZ.BAS    | CAI: Literature quiz.                                                |
| 54.32 | 2K  | MATH.BAS     | See abstract for bugs.                                               |
| 54.33 | 2K  | MUGWMP.BAS   | Triangulation game.                                                  |
| 54.34 | 3K  | PICTUR.BAS   | Draws your name and picture???                                       |
| 54.35 | 2K  | POET.BAS     | Random verse ala Edgar Allen Poe.                                    |
| 54.36 | 8K  | POKER.BAS    | Draw Poker.                                                          |
| 54.37 | 1K  | PRIME.BAS    | Calculates prime numbers from 1 to 10,000 -- patience is advised.    |
| 54.38 | 5K  | deleted      | deleted by reviewer, who was too lazy to re-type the entire catalog. |
| 54.39 | 7K  | QUBIC.BAS    | 3D Tic Tac Toe in a 4x4x4 cube, bugs.                                |
| 54.40 | 3K  | REVRSE.BAS   | Arrange a list of numbers via reversals.                             |
| 54.41 | 4K  | ROCKET.BAS   | Lunar Lander.                                                        |
| 54.42 | 3K  | ROCKT1.BAS   | Lunar Lander.                                                        |
| 54.43 | 4K  | SNOOPY.BAS   | Draws a "Snoopy" on your CRT or printer.                             |
| 54.44 | 3K  | SPORTS.BAS   | CAI: Multiple choice questions about sports.                         |
| 54.45 | 2K  | STARS.BAS    | Number guessing game.                                                |
| 54.46 | 8K  | STOCK.BAS    | Stock Market Simulation Game.                                        |
| 54.47 | 2K  | TAKEAWAY.BAS | Remove asterisks from a collection, similar to "CHOMP".              |
| 54.48 | 5K  | TDRILL.BAS   | Typing drill program.                                                |
| 54.49 | 4K  | TENNIS.BAS   | CAI: Multiple choice questions about...                              |
| 54.50 | 2K  | TEXT.BAS     | Intro to some programs on this disk.                                 |
| 54.51 | 5K  | TICTAC.BAS   | 9x9 grid tic tac toe.                                                |
| 54.52 | 2K  | TRAP.BAS     | "Guess the mystery number"                                           |
| 54.53 | 3K  | TTTOE.BAS    | Standard tic tac toe with bugs.                                      |
| 54.54 | 3K  | TVPLOT.BAS   | Humorous TV plots.                                                   |
| 54.55 | 1K  | TYPING.BAS   | Typing drill with bugs.                                              |
| 54.56 | 4K  | WEKDAY.BAS   | Day of week that you were born.                                      |
| 54.57 | 3K  | WISHES.BAS   | Silly wish poems for kids.                                           |

## CP/M Users Group VOLUME 78

CP/M Users Group  
1651 Third Ave.  
New York, N.Y. 10028

DESCRIPTION: Utility disk. 01/24/82

| NUMBER | SIZE | NAME         | COMMENTS                                                                         |
|--------|------|--------------|----------------------------------------------------------------------------------|
|        |      | -CATALOG.078 | CONTENTS OF CP/M VOL. 078                                                        |
|        | 8K   | ABSTRACT.078 | Abstracts of programs                                                            |
|        | 5K   | U-G-FORM.LIB | Users Group submission form                                                      |
|        | 8K   | VOLUME78.DOC | DOC on programs not having some other form of documentation.                     |
| 078.1  | 4K   | /.ASM        | Quickie SUBMIT from command line.                                                |
| 078.2  | 1K   | /.COM        |                                                                                  |
| 078.3  | 1K   | /DUP.COM     | Same as /.ASM but produces a second copy of \$\$\$SUB to facilitate re-executing |
| 078.4  | 10K  | BMAPORIG.ASM | Prints 2.2 disk allocation bit map                                               |
| 078.5  | 1K   | BMAPORIG.COM |                                                                                  |
| 078.6  | 2K   | CRCK.COM     | to check files on this disk                                                      |
| 078.7  | 2K   | CRCKLIST.078 | File of all file CRC's                                                           |
| 078.8  | 3K   | D.COM        | Type D to see if any files have been lost on this disk                           |
| 078.9  | 10K  | DUH.COM      | Disk Utility for the H/Z-89                                                      |
| 078.10 | 3K   | DUH.Z80      | Source for DU relocater                                                          |
| 078.11 | 51K  | DUU.ASM      | Disk Utility Universal, works with 1.4 and 2.2                                   |
| 078.12 | 7K   | DUU.COM      |                                                                                  |
| 078.13 | 14K  | DUU.DOC      | DOC on above                                                                     |
| 078.14 | 8K   | EPROM.ASM    | SSM PB1 PROM prog. rtn.                                                          |
| 078.15 | 2K   | EPROM.DOC    | DOC on above                                                                     |
| 078.16 | 4K   | FMAP.COM     | File map updated for 1024 dir entries and CP/M 1.4 or 2.2                        |
| 078.17 | 1K   | IF.COM       | Continue or abort a SUBMIT                                                       |
| 078.18 | 2K   | LPRINT.ASM   | Paginated file output to LIST                                                    |
| 078.19 | 12K  | MAKE.ASM     | Make a file a different user #                                                   |
| 078.20 | 3K   | NOTATE.ASM   | Add comments to an .ASM file                                                     |
| 078.21 | 1K   | NOTATE.COM   | .COM of above                                                                    |
| 078.22 | 3K   | PATCH.ASM    | Patch CP/M to show user: "A0>"                                                   |
| 078.23 | 1K   | REPEAT.COM   | Repeat a SUBMIT "nn" times.                                                      |
| 078.24 | 10K  | SDCOPY.ASM   | Single-disk file copy program                                                    |
| 078.25 | 1K   | SDCOPY.COM   | "                                                                                |
| 078.26 | 3K   | SDCOPY.DOC   | "                                                                                |
| 078.27 | 14K  | SWAPCOPY.ASM | Another single disk file copy program                                            |
| 078.28 | 2K   | SWAPCOPY.COM | "                                                                                |
| 078.29 | 3K   | SWAPCOPY.DOC | "                                                                                |
| 078.30 | 1K   | TestProt.BAS | Sample to test UN.COM                                                            |
| 078.31 | 5K   | UN.COM       | Unprotect MBASIC programs                                                        |
| 078.32 | 23K  | XREFPRN.ASM  | Prints a cross-reference from a PRN file to CP/M LIST device                     |
| 078.33 | 3K   | XREFPRN.COM  |                                                                                  |

Cataloged by Ward Christensen

## CPMUG VOLUME 079

DESCRIPTION: MODEM programs for PMMI, SMARTMODEM, Serial I/O.  
Latest versions as of March 1, 1982.  
Digital Research "MAC" macro assembler required.

| NUMBER | SIZE | NAME         | COMMENTS                                                                    |
|--------|------|--------------|-----------------------------------------------------------------------------|
|        |      | CATALOG.079  | CONTENTS OF CPMUG VOL. 079                                                  |
|        |      | UGFORM.LIB   | CPMUG program submittal form.                                               |
|        |      | CRCKFILE.079 | CRC file for verification.                                                  |
|        |      | CRCK.COM     |                                                                             |
|        |      |              | FOR THE Potomac Micro Magic Inc (PMMI)<br>MM-103 MODEM (also serial I/O):   |
| 079.1  | 16K  | MODEM7.DOC   | Documentation for MODEM 7 and higher.<br>Originally from CP/M UG Volume 47. |
| 079.2  | 14K  | MODEM7.LIB   | MACLIB file for use with MODEM741.ASM.                                      |
| 079.3  | 66K  | MODEM741.ASM | Assembler source for MODEM version 7.41.                                    |
| 079.4  | 10K  | MODEM741.COM | Object code of above program.                                               |
| 079.5  | 4K   | MODEM741.SET | Patching instructions for MODEM741.COM.                                     |
| 079.6  | 1K   | MODEM7X.BUG  | Bug report.                                                                 |
|        |      |              | FOR THE DC HAYES SMARTMODEM:                                                |
| 079.7  | 85K  | SMODEM37.ASM | Assembler source for SMODEM version 3.7                                     |
| 079.8  | 26K  | SMODEM37.DOC | Documentation for the above program.                                        |

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PMMI, MM-103, and Potomac Micro Magic are trademarks of Potomac Micro Magic.

## CPMUG VOLUME 80

CP/M Users Group  
1651 Third Ave.  
New York, NY 10028

DESCRIPTION: Cromemco Structured Basic programs  
by David E. Trachtenbarg:

1. Mail list programs.
2. Spelling programs.
3. Statistical programs.
4. Misc. other programs.

| NUMBER | SIZE | NAME         | COMMENTS                      |
|--------|------|--------------|-------------------------------|
|        |      | -CATALOG.080 | CONTENTS OF CPMUG VOL. 080    |
|        |      | ABSTRACT.080 | Volume abstract               |
|        | 2K   | CRCK.COM     | CRC program.                  |
|        | 1K   | FILES.CRC    | CRC of files on this disk     |
|        | 5K   | U-G-FORM.LIB | CPMUG submission form.        |
| 80.1   | 2K   | BACKUP.STB   | Part of mail list system      |
| 80.2   | 6K   | CEDIT.STB    | Part of spelling program      |
| 80.3   | 2K   | CHECK.DAT    | Part of spelling program      |
| 80.4   | 8K   | CONV-ASC.STB | Convert MBASIC to Cromemco    |
| 80.5   | 6K   | CONV-BAS.STB | structured BASIC              |
| 80.6   | 2K   | DATE.STB     | Part of mail list system      |
| 80.7   | 10K  | DEDIT.STB    | Part of spelling program      |
| 80.8   | 2K   | DICTION.DAT  | Part of spelling program      |
| 80.9   | 12K  | GRADER.STB   | Text evaluation program       |
| 80.10  | 4K   | MMENU.STB    | Part of mail list system      |
| 80.11  | 2K   | PRN-TEST.STB | Printer test program          |
| 80.12  | 10K  | REC-EDIT.STB | Part of mail list system      |
| 80.13  | 8K   | REC-PRN.STB  | Part of mail list system      |
| 80.14  | 2K   | SMENU.STB    | Part of spelling program      |
| 80.15  | 8K   | SORTS.STB    | Sort routines                 |
| 80.16  | 2K   | SPEAR.STB    | Statistics program            |
| 80.17  | 6K   | SPELL.STB    | Part of spelling program      |
| 80.18  | 10K  | STAT.STB     | Statistics program            |
| 80.19  | 20K  | TRADE.STB    | Game prog with no GOTOs!      |
| 80.20  | 4K   | TRANSFER.STB | Part of spelling program      |
| 80.21  | 24K  | TREK.STB     | Yes, Startrek                 |
| 80.22  | 16K  | TRK-HELP.STB | More Startrek stuff           |
| 80.23  | 6K   | UTILITY.STB  | "Unnum" and renum BASIC progs |
| 80.24  | 40K  | WORDLIST.TXT | Part of spelling program      |
| 80.25  | 2K   | X2.STB       | Statistics program            |
| 80.26  | 2K   | ZIPSORT.STB  | Part of mail list system      |

Prepared by Ward Christensen 04/82

## CPMUG VOLUME 81

DESCRIPTION: CP/M Utility disk. Submit replacement, editor, text processor, hard disk backup utility, etc.

| NUMBER | SIZE | NAME         | COMMENTS                        |
|--------|------|--------------|---------------------------------|
|        |      | -CATALOG.081 | Contents of CP/M Vol. 81        |
|        |      | ABSTRACT.081 | Abstract of files on volume 81. |
|        |      | CRCK.COM     | Produce CRC of files            |
|        |      | FILES.CRC    | CRC of files on this disk       |
|        |      | U-G-FORM.LIB | CPMUG submission form           |
| 81.1   | 10K  | AUTOLOAD.COM | Write initial CP/M command into |
| 81.2   | 3K   | AUTOLOAD.DOC | CCP on disk.                    |
| 81.3   | 28K  | BACKUP.ASM   | Back up hard disk to multiple   |
| 81.4   | 7K   | BACKUP.DOC   | floppy disks                    |
| 81.5   | 7K   | BAUDSET.ASM  | Set baudrate for                |
| 81.6   | 2K   | BAUDSET.DOC  | serial board                    |
| 81.7   | 25K  | EDITM.ASM    | Update of CPMUG volume 16       |
| 81.8   | 3K   | EDITM.COM    | editor, with new                |
| 81.9   | 4K   | EDITM.DOC    | features.                       |
| 81.10  | 16K  | FLOPCOPY.ASM | Copy floppy via hard disk when  |
| 81.11  | 2K   | FLOPCOPY.DOC | only 1 floppy drive             |
| 81.12  | 42K  | POW2.ASM     | "Processor of Words" - text     |
| 81.13  | 5K   | POW2.COM     | processing prog.                |
| 81.14  | 4K   | POW2.DOC     | " "                             |
| 81.15  | 23K  | POW2.MAN     | Manual on above                 |
| 81.16  | 2K   | POW2.TST     | Test document                   |
| 81.17  | 22K  | SUPERSUB.ASM | Super submit program, allowing  |
| 81.18  | 3K   | SUPERSUB.COM | nested submits,                 |
| 81.19  | 15K  | SUPERSUB.DOC | etc.                            |

## CPMUG VOLUME 082

DESCRIPTION: North Star BIOS routines by Steve Bogolub.

| NUMBER | SIZE | NAME         | COMMENTS                     |
|--------|------|--------------|------------------------------|
|        | 2K   | -CATALOG.082 | Contents of CPMUG Vol. 082   |
|        | 3K   | ABSTRACT.082 | Volume 82 abstract           |
|        | 2K   | CRCK.COM     | CRC check program            |
|        | 1K   | FILES.CRC    | CRC of files on disk         |
|        | 5K   | U-G-FORM.LIB | CPMUG contribution form      |
| 82.1   | 53K  | MBIOS56.ASM  | Bios with PMMI MODEM drivers |
| 82.2   | 55K  | NBIOS56.ASM  | North Star BIOS              |
| 82.3   | 16K  | NSBIOS.DOC   | DOC on above                 |
| 82.4   | 35K  | NSCOPY.ASM   | Disk format and copy program |
| 82.5   | 12K  | NSGEN.ASM    | Sysgen program               |
| 82.6   | 21K  | SDNBIOS.ASM  | Single density N* BIOS       |
| 82.7   | 2K   | SDNBOOT.ASM  | Single density N* BOOT       |
| 82.8   | 11K  | SDNSGEN.ASM  | Single density N* SYSGEN     |
| 82.9   | 8K   | SDNUSER.ASM  | Single density N* user area  |

## CPMUG VOLUME 83

DESCRIPTION: Extensions for commercial languages:

1. MuMath/MuSimp enhancements;  
(Gerald A. Edgar)
2. CBASIC complex math routines;  
(E.R. Le Clear)
3. CP/M functions for Fortran-80;  
(William R. Brandoni)

| NUMBER | SIZE | NAME         | COMMENTS                                                      |
|--------|------|--------------|---------------------------------------------------------------|
|        | 2K   | -CATALOG.083 | CONTENTS OF CPMUG VOL. 83                                     |
|        | 4K   | ABSTRACT.083 | Abstract of volume                                            |
|        | 2K   | CRCK.COM     | CRC check program.                                            |
|        | 2K   | FILES.CRC    | CRC of files on disk                                          |
|        | 5K   | U-G-FORM.LIB | CPMUG contribution form                                       |
| ----   |      |              |                                                               |
| 83.1   | 6K   | ARITH%.MUS   | muMATH arithmetic                                             |
| 83.2   | 2K   | ATRG.TRG     | muMATH inverse trig functions                                 |
| 83.3   | 1K   | INT%.DIF     | muMATH integrals                                              |
| 83.4   | 1K   | LIM%.DIF     | muMATH limits                                                 |
| 83.5   | 1K   | LOG%.ALG     | muMATH logarithms                                             |
| 83.6   | 12K  | MUMATH%.DOC  | explanations of the files                                     |
| 83.7   | 10K  | SERIES%.DIF  | muMATH infinite series                                        |
| 83.8   | 5K   | SOLVE4%.EQN  | muMATH solution of equations                                  |
| 83.9   | 3K   | TRGNEG%.ALG  | muMATH trigonometric functions                                |
| ----   |      |              |                                                               |
| 83.10  | 11K  | APPENDIX.DOC | Appendix to CMATH/DOC. matrix math and circuit relationships. |
| 83.11  | 13K  | CMATH.DOC    | Documentation for other complex math files except COMCALC/BAS |
| 83.12  | 12K  | COMCALC.BAS  | Source code for "calculator" mode complex math operation.     |
| 83.13  | 5K   | COMCALC.INT  | Compiled COMCALC/BAS                                          |
| 83.14  | 6K   | COMDISK.DOC  | DOC for complex subroutines XXXXXX.SRT                        |
| 83.15  | 1K   | DIVCOM.SRT   | Divide two complex quantities                                 |
| 83.16  | 8K   | LPFILTAN.BAS | Source code for multipole filter analysis program             |
| 83.17  | 4K   | LPFILTAN.INT | Compiled LPFILTAN.BAS                                         |
| 83.18  | 1K   | MPYCOM.SRT   | Multiply two complex quantities                               |
| 83.19  | 1K   | MTXMPY.SRT   | Matrix multiplication                                         |
| 83.20  | 1K   | PAR/SER.SRT  | Parallel to serial impedance convert                          |
| 83.21  | 1K   | POL/REC.SRT  | Complex polar to rectangular convert                          |
| 83.22  | 1K   | REC/POL.SRT  | Complex rectangular to polar convert                          |
| 83.23  | 1K   | REFC/Z.SRT   | Reflection coefficient to Z conv                              |
| 83.24  | 1K   | SER/PAR.SRT  | Serial to parallel impedance convert                          |
| 83.25  | 2K   | SMATX.SRT    | convert S matrix to X matrix                                  |
| 83.26  | 2K   | XMATS.SRT    | Convert X matrix to S matrix                                  |
| 83.27  | 2K   | YZZY.SRT     | convert Y to Z or Z to Y matrix                               |
| 83.28  | 1K   | Z/REFC.SRT   | Z to reflection coefficient convert                           |
| 83.29  | 1K   | ZXXZ.SRT     | Convert Z to X or X to Z matrix                               |
| ----   |      |              |                                                               |
| 83.30  | 3K   | CONTENT.DSK  | Brief description of disk contents.                           |
| 83.31  | 12K  | CPMFN.MAC    | Microsoft M80 source for part of CPMLIB.                      |
| 83.32  | 1K   | CPMFN.REL    | Assembled version of CPMFN.MAC                                |
| 83.33  | 3K   | CPMFNA.MAC   | Microsoft M80 source for part of CPMLIB.                      |

|       |     |            |                                                                                                            |
|-------|-----|------------|------------------------------------------------------------------------------------------------------------|
| 83.34 | 1K  | CPMFNA.REL | Assembled version of CPMFNA.MAC                                                                            |
| 83.35 | 30K | CPMINT.FOR | Microsoft F80 source for part of CPMLIB.                                                                   |
| 83.36 | 5K  | CPMINT.REL | Compiled version of CPMINT.FOR                                                                             |
| 83.37 | 17K | CPMLIB.DOC | Documentation on the use of CPMLIB.                                                                        |
| 83.38 | 4K  | CPMLIB.MOD | Documentation on methods to modify or add to the functions supported by CPMLIB.                            |
| 83.39 | 6K  | CPMLIB.REL | Library which can be used to interface Microsoft FORTRAN-80 to CP/M BDOS and other system-level functions. |
| 83.40 | 5K  | TEST.FOR   | FORTRAN source for program to test library.                                                                |

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## CPMUG VOLUME 084

DESCRIPTION:   MODEM version 7.65  
                 XMODEM version 5.0

| NUMBER | SIZE | NAME         | COMMENTS                                               |
|--------|------|--------------|--------------------------------------------------------|
|        |      | -CATALOG.084 | This file (contents of disk)                           |
|        |      | ABSTRACT.084 | Abstracts of files on this disk                        |
|        |      | CRCK.COM     | Program for checking CRC's of files                    |
|        |      | CRCKLIST.084 | CRCK's of files on this disk                           |
|        |      | U-G-FORM.LIB | Program submittal form                                 |
| 084.1  | 16K  | MODEM7.DOC   | Documentation for MODEM program<br>from CPMUG Vol. 79A |
| 084.2  | 14K  | MODEM76.LIB  | Macro library used with MODEM 7.65                     |
| 084.3  | 6K   | MODEM76.SET  | Instructions for "hot-patching" MODEM                  |
| 084.4  | 63K  | MODEM765.ASM | Macro assembler source code for MODEM 7.65             |
| 084.5  | 10K  | MODEM765.COM | Object code of MODEM 7.65                              |
| 084.6  | 18K  | SEQIO22.LIB  | Macro library used with XMODEM 5.0                     |
| 084.7  | 3K   | XMODEM47.DOC | Documentation for XMODEM program                       |
| 084.8  | 49K  | XMODEM50.ASM | Assembler source code for XMODEM 5.0                   |
| 084.9  | 1K   | XMODEM51.FIX | Notes on a bug fix for XMODEM                          |

Note: MODEM program requires assembly with Digital Research MAC  
macro-assembler. XMODEM may be assembled with ASM.COM if the "logging"  
feature is disabled, otherwise MAC is required for assembly.

## CPMUG VOLUME 085

DESCRIPTION: BYE 7.9 remote user i/o program  
SD 4.4 super directory program  
SQ 1.6 squeezer program  
USQ 1.9 unsqueezer program

| NUMBER | SIZE | NAME         | COMMENTS                                                                   |
|--------|------|--------------|----------------------------------------------------------------------------|
|        |      | -CATALOG.085 | CONTENTS OF CP/M VOL. 085                                                  |
|        |      | ABSTRACT.085 | Abstracts of files on this disk.                                           |
|        |      | CRCK.COM     | CRC file checking program.<br>Type "CRCK *.*" to check CRC's of all files. |
|        |      | CRCKLIST.085 | List of CRC's for files on this disk.                                      |
| 085.1  | 78K  | BYE79.ASM    | 8080 Assembler source code for BYE 7.9                                     |
| 085.2  | 15K  | BYE79.DOC    | Documentation for BYE 7.9                                                  |
| 085.3  | 48K  | SD-44.ASM    | 8080 Assembler source code for SD 4.4                                      |
| 085.4  | 2K   | SD-44.COM    | Assembled 085.3 (for those without MAC)                                    |
| 085.5  | 14K  | SD-44.DOC    | Documentation for SD 4.4                                                   |
| 085.6  | 16K  | SQ-16.COM    | 8080 object file for SQUEEZE 1.6                                           |
| 085.7  | 23K  | SQUEEZ16.DOC | Documentation for SQUEEZE and UNSQUEEZE<br>programs.                       |
| 085.8  | 12K  | USQ-19.COM   | 8080 object file for UNSQUEEZE 1.9                                         |

This software was obtained from the Hyde Park (Chicago) RCPM system,  
run by Ben Bronson at (312) 955-4493.

VOLUME 086 CP/M Users Group  
1651 Third Ave.  
New York N.Y. 10028

DESCRIPTION: BusinessMaster II  
Volume 1 of 5: documentation.

SUBMITTED BY: Bud Aaron  
BusinessMaster  
1207 Elm Ave, Suite M  
Carlsbad, CA 92008

BusinessMaster II is a general business software package for  
CBASIC-II, occupying CPMUG volumes 86-90, encompassing, by volume:

86 documentation;  
87 initialization, startup, modification and maintenance;  
inventory/fixed asset accounts;  
mailing list;  
88 sample data files;  
payroll;  
89 order entry/receivables;  
purchase order/payables;  
90 general ledger;

| NUMBER | SIZE | NAME         | COMMENTS                                                             |
|--------|------|--------------|----------------------------------------------------------------------|
|        | 2K   | -CATALOG.086 | CONTENTS OF CP/M VOL. 086                                            |
|        | 3K   | ABSTRACT.086 | Release to public domain of BMII.                                    |
|        | 5K   | U-G-FORM.LIB | Users Group Submission Form.                                         |
|        | 2K   | CRCKLIST.086 | File of all file CRC's.                                              |
|        | 2K   | CRCK.COM     | to check files on this disk.                                         |
| 86.1   | 2K   | APPENDA.DOC  | Diskette handling tips for novices.                                  |
| 86.2   | 3K   | APPENDB.DOC  | Disk File Capacities.                                                |
| 86.3   | 4K   | APPENDC.DOC  | Data File Diskette Set-up.                                           |
| 86.4   | 2K   | APPENDD.DOC  | Programs Not Accessed Through The Menu.                              |
| 86.5   | 10K  | APPENDE.DOC  | Compilation of businessMaster II progs.                              |
| 86.6   | 18K  | APPENDF.DOC  | General File Information.                                            |
| 86.7   | 14K  | APPENDG.DOC  | Forms for establishing acct. #'s etc.                                |
| 86.8   | 2K   | APPENDH.DOC  | How to increase size of a data file.                                 |
| 86.9   | 7K   | GLOSSARY.DOC | Glossary of terms                                                    |
| 86.10  | 12K  | HIERARCH.DOC | What program calls what program,<br>and what CPMUG disk are they on? |
| 86.11  | 132K | NEW.DOC      | Comprehensive overall system doc.                                    |

Note all .DOC files are meant to be printed with WordStar, however they are pre-formatted containing only ^J page ejects, and a few WordStar "dot" commands such as .pa and .pl

Also note: the SUB files mentioned in APPENDE.DOC were not included with the submitted material. I made a "COMPILE.SUB" for each volume containing .BAS programs.

09/21/82 WLC

VOLUME 87 CP/M Users Group  
1651 Third Ave.  
New York N.Y. 10028

DESCRIPTION: BusinessMaster II  
Volume 2 of 5: initialization, startup, modification  
and maintenance; inventory/fixed asset accounts;  
mailing list;

SUBMITTED BY: Bud Aaron  
BusinessMaster  
1207 Elm Ave, Suite M  
Carlsbad, CA 92008

BusinessMaster II is a general business software package for  
CBASIC-II, occupying CPMUG volumes 86-90, encompassing, by volume:

86 documentation;  
87 initialization, startup, modification and maintenance;  
inventory/fixed asset accounts;  
mailing list;  
88 sample data files;  
payroll;  
89 order entry/receivables;  
purchase order/payables;  
90 general ledger;

| NUMBER | SIZE | NAME         | COMMENTS                                  |
|--------|------|--------------|-------------------------------------------|
|        | 4K   | -CATALOG.087 | CONTENTS OF CPMUG VOL. 87                 |
|        | 5K   | U-G-FORM.LIB | Users Group Submission Form.              |
|        | 2K   | CRCKLIST.087 | File of all file CRC's.                   |
|        | 2K   | CRCK.COM     | to check files on this disk.              |
|        | 2K   | COMPILE.SUB  | To compile all programs.                  |
| 87.1   | 1K   | ALL.BAS      | Include FORMAT and CONTROL                |
| 87.2   | 4K   | BIZMII.BAS   | Master Menu Businessmaster II. (bizmii)   |
| 87.3   | 2K   | CHECK.BAS    | Check for needed files                    |
| 87.4   | 1K   | CONTROL.BAS  | Set up control characters for terminal    |
| 87.5   | 1K   | FORMAT.BAS   | Set common and formats.                   |
| 87.6   | 1K   | READFILE.BAS | Read name, date, formats and tabs.        |
| 87.7   | 6K   | CGDEPCAL.BAS | Depreciation Calculator                   |
| 87.8   | 11K  | CGENTRY.BAS  | Capital Goods (Fixed Asset) Entry Program |
| 87.9   | 3K   | CGFM4562.BAS | IRS Form 4652 - Depreciation Printer      |
| 87.10  | 4K   | CGRPT.BAS    | Depreciation Report Printer               |
| 87.11  | 3K   | CGSORT.BAS   | Capital Goods Entry Sort Program          |
| 87.12  | 3K   | CRLABELS.BAS | Cust. mailing label printing program.     |
| 87.13  | 5K   | DAENTRY.BAS  | Date Entry Program                        |
| 87.14  | 8K   | EFENTRY.BAS  | Federal Tax Table Entry Program           |
| 87.15  | 5K   | EPCUTS.BAS   | Payroll Cutoff and % Entry Program        |
| 87.16  | 3K   | EPLABELS.BAS | Empl. mailing label printing program.     |
| 87.17  | 7K   | EPTABS.BAS   | Payroll Check Tab Entry Program           |
| 87.18  | 11K  | ESENTRY.BAS  | Cal. State Tax Table Entry Program        |
| 87.19  | 4K   | FGALERT.BAS  | Finished Goods Inventory Alert Printer    |
| 87.20  | 11K  | FGENTRY.BAS  | Finished Goods Inventory Entry Program    |
| 87.21  | 4K   | FGRPT.BAS    | Finished Goods Inventory Report Printer   |
| 87.22  | 3K   | FGSORT.BAS   | Finished Goods Entry Sort Program         |
| 87.23  | 5K   | FMENTRY.BAS  | \$ and % Format Entry Program             |

|       |     |              |                                      |
|-------|-----|--------------|--------------------------------------|
| 87.24 | 11K | GLHENTRY.BAS | General Ledger Heading Entry Program |
| 87.25 | 3K  | GLHSORT.BAS  | G/L Heading Entry Sort Program       |
| 87.26 | 11K | GLSENTRY.BAS | G/L Subheading Entry Program         |
| 87.27 | 3K  | GLSSORT.BAS  | G/L Subheading Entry Sort Program    |
| 87.28 | 9K  | MAENTRY.BAS  | Mailing List Name Entry Program      |
| 87.29 | 3K  | MALABELS.BAS | Mailing label printing program.      |
| 87.30 | 3K  | MASORT.BAS   | Mailing List Entry Sort Program      |
| 87.31 | 3K  | MASTER4.BAS  | Inventory Menu                       |
| 87.32 | 2K  | MASTER6.BAS  | Mailing List Menu                    |
| 87.33 | 3K  | MASTER7.BAS  | Initialization Routines Menu         |
| 87.34 | 1K  | MASTER8.BAS  | Periodic Maintenance Menu            |
| 87.35 | 1K  | MASTER9.BAS  | General Ledger Heading Menu          |
| 87.36 | 1K  | MASTER15.BAS | Check Tabs and Cutoffs Menu          |
| 87.37 | 2K  | MASTER16.BAS | Fixed Asset Accounting Menu          |
| 87.38 | 5K  | MMAINT.BAS   | Monthly File Maintenance Program     |
| 87.39 | 9K  | NAMENTRY.BAS | Company Name Entry Program           |
| 87.40 | 3K  | NMSORT.BAS   | Company Name Entry Sort Program      |
| 87.41 | 6K  | QMAINT.BAS   | Quarterly File Maintenance Program   |
| 87.42 | 4K  | RGALERT.BAS  | Raw Goods Inventory Alert Printer    |
| 87.43 | 11K | RGENTRY.BAS  | Raw Goods Inventory Entry Program    |
| 87.44 | 4K  | RGRPT.BAS    | Raw Goods Inventory Report Printer   |
| 87.45 | 3K  | RGSORT.BAS   | Raw Goods Entry Sort Program         |
| 87.46 | 7K  | TAENTRY.BAS  | General Ledger Tab Entry Program     |
| 87.47 | 3K  | VPLABELS.BAS | Mailing label printing program.      |
| 87.48 | 6K  | YMAINT.BAS   | Yearly File Maintenance Program      |

VOLUME 088 CP/M Users Group  
1651 Third Ave.  
New York N.Y. 10028

DESCRIPTION: BusinessMaster II  
Volume 3 of 5: sample data files; payroll;

SUBMITTED BY: Bud Aaron  
BusinessMaster  
1207 Elm Ave, Suite M  
Carlsbad, CA 92008

BusinessMaster II is a general business software package for  
CBASIC-II, occupying CPMUG volumes 86-90, encompassing, by volume:

86 documentation;  
87 initialization, startup, modification and maintenance;  
inventory/fixed asset accounts;  
mailing list;  
88 sample data files;  
payroll;  
89 order entry/receivables;  
purchase order/payables;  
90 general ledger;

| NUMBER | SIZE | NAME         | COMMENTS                     |
|--------|------|--------------|------------------------------|
|        | 4K   | -CATALOG.088 | CONTENTS OF CPMUG VOL. 088   |
|        | 5K   | U-G-FORM.LIB | Users Group Submission Form. |
|        | 2K   | CRCKLIST.088 | File of all file CRC's.      |
|        | 2K   | CRCK.COM     | To check files on this disk. |

---- Sample data files ----

|       |     |           |                                  |
|-------|-----|-----------|----------------------------------|
| 88.1  | 6K  | CG.       | Cost of goods sold file.         |
| 88.2  | 1K  | CGSIZE.   | # in use + max size of above     |
| 88.3  | 1K  | CHK.      | ?? next check # to write??       |
| 88.4  | 9K  | CR.       | customer receivables file        |
| 88.5  | 1K  | CRSIZE.   | # in use + max size of CR file   |
| 88.6  | 1K  | DATE.     | Date information                 |
| 88.7  | 4K  | EDEP.     | Federal deposit record           |
| 88.8  | 1K  | EDEPSIZE. | # in use + max size of EDEP file |
| 88.9  | 1K  | EF.       | Federal Withholding Tables       |
| 88.10 | 11K | EP.       | Consolidated employee payroll    |
| 88.12 | 1K  | EPSIZE.   | # in use + max size of EP file   |
| 88.11 | 1K  | EPC.      | Payroll cutoff amounts           |
| 88.13 | 1K  | EPT.      | Payroll Check Printing Tabs      |
| 88.14 | 1K  | ES.       | California Withholding Tables    |
| 88.15 | 6K  | FG.       | Finished goods inventory         |
| 88.16 | 1K  | FGSIZE.   | # in use + max size of FG file   |
| 88.17 | 14K | GL.       | General ledger file              |
| 88.29 | 1K  | GLSIZE.   | # in use + max size of GL file   |
| 88.18 | 6K  | GLCD.     | Check disbursements              |
| 88.19 | 1K  | GLCDSIZE. | # in use + max size of GLCD file |
| 88.20 | 2K  | GLCK.     | Check receipts                   |
| 88.21 | 1K  | GLCKSIZE. | # in use + max size of GLCK file |
| 88.22 | 1K  | GLF.      | General ledger formats           |
| 88.23 | 2K  | GLH.      | General ledger heading file      |
| 88.24 | 1K  | GLHSIZE.  | # in use + max size of GLH file  |
| 88.25 | 13K | GLJO.     | General journal gljo             |

|       |    |           |                                         |
|-------|----|-----------|-----------------------------------------|
| 88.26 | 1K | GLJOSIZE. | # in use + max size of GLJO file        |
| 88.27 | 1K | GLREF.    | General Ledger Account # Reference File |
| 88.28 | 4K | GLS.      | general ledger subheading file          |
| 88.30 | 1K | GLSSIZE.  | # in use + max size of GLS file         |
| 88.31 | 1K | GLT.      | general ledger report tabs              |
| 88.32 | 1K | INV.      | Invoice # File                          |
| 88.33 | 9K | IR.       | invoice register                        |
| 88.34 | 1K | IRSIZE.   | # in use + max size of IR file          |
| 88.35 | 8K | MAO.      | Mailing list file                       |
| 88.36 | 1K | MAOSIZE.  | # in use + max size of MAO file         |
| 88.37 | 1K | NM.       | Company Name File                       |
| 88.38 | 1K | NMSIZE.   | # in use + max size of NM file          |
| 88.39 | 3K | PO.       | Purchase order register                 |
| 88.41 | 1K | POSIZE.   | # in use + max size of PO file          |
| 88.40 | 1K | POE.      | Purchase order numbers                  |
| 88.42 | 3K | TM.       | Time card record                        |
| 88.43 | 5K | VP.       | Vendor payables file                    |
| 88.44 | 1K | VPSIZE.   | # in use + max size of VP file          |

---- Common programs ---- would not fit on this volume because  
of 64 directory entry limit. Get them  
from another volume (87, 89, 90)

|    |              |                                         |
|----|--------------|-----------------------------------------|
| 1K | ALL.BAS      | Include FORMAT and CONTROL              |
| 4K | BIZMII.BAS   | Master Menu Businessmaster II. (bizmii) |
| 2K | CHECK.BAS    | Check for needed files                  |
| 1K | CONTROL.BAS  | Set up control characters for terminal  |
| 1K | FORMAT.BAS   | Set common and formats.                 |
| 1K | READFILE.BAS | Read name, date, formats and tabs.      |

---- Payroll programs ----

|       |             |                                   |                                               |
|-------|-------------|-----------------------------------|-----------------------------------------------|
| 1K    | COMPILE.SUB | To compile all following programs |                                               |
| 88.45 | 4K          | EPCHECKS.BAS                      | Payroll Check Printer                         |
| 88.46 | 1K          | EPCLEAR.BAS                       | Employee payroll clearing program             |
| 88.47 | 8K          | EPDPOSIT.BAS                      | Federal Tax Deposit Entry Program             |
| 88.48 | 14K         | EPENTRY.BAS                       | Employee Payroll Record Entry Program         |
| 88.49 | 6K          | EPJPOST.BAS                       | Payroll Journal Posting Program               |
| 88.50 | 9K          | EPJOTRAN.BAS                      | Payroll Calculation Program                   |
| 88.51 | 3K          | EPLIST.BAS                        | Payroll File Listing Program                  |
| 88.52 | 5K          | EPSORT.BAS                        | Employee Info Entry Sort Program              |
| 88.53 | 5K          | EPSUMARY.BAS                      | Payroll Register Printer                      |
| 88.54 | 5K          | FED941PR.BAS                      | Federal Form 941 Quarterly Tax Return Printer |
| 88.55 | 2K          | MASTER14.BAS                      | Payroll Entry and Calculation Menu            |
| 88.56 | 3K          | MASTER5.BAS                       | Employee Payroll Menu                         |
| 88.57 | 10K         | TMENTRY.BAS                       | Payroll Time Card Entry Program               |
| 88.58 | 5K          | W2PRINT.BAS                       | Federal W2 Printer                            |

VOLUME 089 CP/M Users Group  
1651 Third Ave.  
New York N.Y. 10028

DESCRIPTION: BusinessMaster II  
Volume 4 of 5: purchase order/payables;  
order entry/receivables;

SUBMITTED BY: Bud Aaron  
BusinessMaster  
1207 Elm Ave, Suite M  
Carlsbad, CA 92008

BusinessMaster II is a general business software package for  
CBASIC-II, occupying CPMUG volumes 86-90, encompassing, by volume:

86 documentation;  
87 initialization, startup, modification and maintenance;  
inventory/fixed asset accounts;  
mailing list;  
88 sample data files;  
payroll;  
89 order entry/receivables;  
purchase order/payables;  
90 general ledger;

| NUMBER | SIZE | NAME         | COMMENTS                                   |
|--------|------|--------------|--------------------------------------------|
|        | 2K   | -CATALOG.089 | CONTENTS OF CPMUG VOL. 089                 |
|        | 5K   | U-G-FORM.LIB | Users Group Submission Form.               |
|        | 2K   | CRCKLIST.089 | File of all file CRC's.                    |
|        | 2K   | CRCK.COM     | to check files on this disk.               |
|        | 1K   | COMPILE.SUB  | To compile all following programs          |
| 89.1   | 1K   | ALL.BAS      | Include FORMAT and CONTROL                 |
| 89.2   | 4K   | BIZMII.BAS   | Master Menu Businessmaster II. (bizmii)    |
| 89.3   | 2K   | CHECK.BAS    | Check for needed files                     |
| 89.4   | 1K   | CONTROL.BAS  | Set up control characters for terminal     |
| 89.5   | 1K   | FORMAT.BAS   | Set common and formats.                    |
| 89.6   | 1K   | READFILE.BAS | Read name, date, formats and tabs.         |
| 89.7   | 12K  | CRENTRY.BAS  | Customer Information Entry Program         |
| 89.8   | 7K   | CRFMINV.BAS  | Formatted Invoice Printing Program         |
| 89.9   | 8K   | CRJOLIST.BAS | Invoice Register Printing Program          |
| 89.10  | 5K   | CRJOPOST.BAS | Accounts Receivable Posting Program        |
| 89.11  | 13K  | CRJOTRAN.BAS | Order/Invoice Entry Program                |
| 89.12  | 3K   | CRLABELS.BAS | Customer mailing label printing program    |
| 89.13  | 7K   | CRPPINV.BAS  | Preprinted Invoice Printing Program        |
| 89.14  | 4K   | CRRPT.BAS    | Aged Accounts Receivable Statement Printer |
| 89.15  | 3K   | CRSORT.BAS   | Customer Information Entry Sort Program    |
| 89.16  | 1K   | INVENT.BAS   | Invoice Number Sequencing Entry Program    |
| 89.17  | 3K   | MASTER2.BAS  | Accounts Receivable/Customer Menu          |
| 89.18  | 3K   | MASTER3.BAS  | Accounts Payable/Vendor Menu               |
| 89.19  | 1K   | POENT.BAS    | Purchase Order # Sequencing Entry Program  |
| 89.20  | 12K  | VPENTRY.BAS  | Vendor Information Entry Program           |
| 89.21  | 7K   | VPFMPO.BAS   | Formatted Purchase Order Printing Program  |
| 89.22  | 8K   | VPJOLIST.BAS | Purchase Order Register Printing Program   |
| 89.23  | 5K   | VPJOPOST.BAS | Accounts Payable Posting Program           |
| 89.24  | 13K  | VPJOTRAN.BAS | Purchase Order Entry Program               |

|       |    |              |                                            |
|-------|----|--------------|--------------------------------------------|
| 89.25 | 3K | VPLABELS.BAS | Mailing label printing program             |
| 89.26 | 7K | VPPPPD.BAS   | Preprinted Purchase Order Printing Program |
| 89.27 | 4K | VPRPT.BAS    | Aged Accounts Payable Statement Printer    |
| 89.28 | 3K | VPSORT.BAS   | Vendor Information Entry Sort Program      |

Note: ALL, FORMAT, and CONTROL are %include files.

09/21/82 WLC

VOLUME 090 CP/M Users Group  
1651 Third Ave.  
New York N.Y. 10028

DESCRIPTION: BusinessMaster II  
Volume 5 of 5: general ledger;

SUBMITTED BY: Bud Aaron  
BusinessMaster  
1207 Elm Ave, Suite M  
Carlsbad, CA 92008

BusinessMaster II is a general business software package for  
CBASIC-II, occupying CPMUG volumes 86-90, encompassing, by volume:

86 documentation;  
87 initialization, startup, modification and maintenance;  
inventory/fixed asset accounts;  
mailing list;  
88 sample data files;  
payroll;  
89 order entry/receivables;  
purchase order/payables;  
90 general ledger;

| NUMBER | SIZE | NAME         | COMMENTS                                  |
|--------|------|--------------|-------------------------------------------|
|        | 3K   | -CATALOG.090 | CONTENTS OF CPMUG VOL. 090                |
|        | 5K   | U-G-FORM.LIB | Users Group Submission Form.              |
|        | 1K   | CRCKLIST.090 | File of all file CRC's.                   |
|        | 2K   | CRCK.COM     | to check files on this disk.              |
|        | 1K   | COMPILE.SUB  | To compile all following programs         |
| 90.1   | 1K   | ALL.BAS      | Include FORMAT and CONTROL                |
| 90.2   | 4K   | BIZMII.BAS   | Master Menu Businessmaster II. (bizmii)   |
| 90.3   | 2K   | CHECK.BAS    | Check for needed files                    |
| 90.4   | 1K   | CONTROL.BAS  | Set up control characters for terminal    |
| 90.5   | 1K   | FORMAT.BAS   | Set common and formats.                   |
| 90.6   | 1K   | READFILE.BAS | Read name, date, formats and tabs.        |
| 90.7   | 11K  | GCINCOME.BAS | Comparative Income Statement Printer      |
| 90.8   | 4K   | GDCHECKS.BAS | General Check Printer                     |
| 90.9   | 5K   | GLBALSHT.BAS | General Ledger Balance Sheet Printer      |
| 90.10  | 3K   | GLBUDGET.BAS | General Ledger Budget Analysis Printer    |
| 90.11  | 9K   | GLCDPOST.BAS | Check Disbursement Posting Program        |
| 90.12  | 4K   | GLCDSORT.BAS | Check Disbursements Entry Sort Program    |
| 90.13  | 15K  | GLCDTRAN.BAS | Check Disbursements Journal Entry Program |
| 90.14  | 4K   | GLCHART.BAS  | General Ledger Chart of Accounts Printer  |
| 90.15  | 9K   | GLCKPOST.BAS | Check Receipt Posting Program             |
| 90.16  | 4K   | GLCKSORT.BAS | Check Disbursements Entry Sort Program    |
| 90.17  | 14K  | GLCKTRAN.BAS | Check Rcpts Journal Trans. Entry Program  |
| 90.18  | 1K   | GLCLEAR.BAS  | Clear all DOLLAR values in the GL file    |
| 90.19  | 11K  | GLENTY.BAS   | General Ledger Entry Program              |
| 90.20  | 10K  | GLINCOME.BAS | Income Statement Printer                  |
| 90.21  | 9K   | GLJQPOST.BAS | General Journal Posting Program           |
| 90.22  | 4K   | GLJOSORT.BAS | General Journal Sorting Program           |
| 90.23  | 13K  | GLJOTRAN.BAS | General Journal Trans. Entry Program      |
| 90.24  | 3K   | GLSORT.BAS   | General Ledger Entry Sort Program         |
| 90.25  | 6K   | GLTBAL.BAS   | General Ledger Trial Balance Printer      |

|       |    |              |                                        |
|-------|----|--------------|----------------------------------------|
| 90.26 | 3K | MASTER1.BAS  | General Ledger/General Journal Menu    |
| 90.27 | 2K | MASTER11.BAS | General Journal Menu                   |
| 90.28 | 1K | MASTER12.BAS | Check-Cash Reciepts-Disbursements Menu |

Note: ALL, CONTROL, and FORMAT are %include files.

09/20/82 WLC

## SIG/M VOLUME 1

ORIGINAL ADVENTURE RUN TIME IMPLEMENTED FOR CP/M

| NUMBER | SIZE | NAME         | COMMENTS                 |
|--------|------|--------------|--------------------------|
|        |      | -CATALOG.001 | CONTENTS OF SIG/M VOL. 1 |
|        |      | ABSTRACT.001 | NOTES ON ADVENTURE       |
| 1.1    | 39K  | AD.COM       |                          |
| 1.2    | 63K  | ADVENTUR.MSG |                          |
| 1.3    | 2K   | ATAB.DAT     |                          |
| 1.4    | 4K   | COMMON.DAT   |                          |
| 1.5    | 1K   | KTAB.DAT     |                          |
| 1.6    | 1K   | LTEXT.DAT    |                          |
| 1.7    | 1K   | RTEXT.DAT    |                          |
| 1.8    | 1K   | STEXT.DAT    |                          |
| 1.9    | 5K   | TRAVEL.DAT   |                          |

## SIG/M VOLUME 2

## ORIGINAL ADVENTURE SOURCE CODE IMPLEMENTED FOR CP/M

| NUMBER | SIZE | NAME         | COMMENTS                 |
|--------|------|--------------|--------------------------|
|        |      | -CATALOG.056 | CONTENTS OF SIG/M VOL. 2 |
|        |      | ABSTRACT.056 | IMPLEMENTATION NOTES     |
| 2.1    | 28K  | ADINIT.COM   |                          |
| 2.2    | 13K  | ADVENSUB.FOR |                          |
| 2.3    | 5K   | ADVENT.FOR   |                          |
| 2.4    | 74K  | ADVENTUR.DAT |                          |
| 2.5    | 29K  | ADVINIT3.FOR |                          |
| 2.6    | 47K  | ADVMAIN.FOR  |                          |
| 2.7    | 5K   | INSUB.FOR    |                          |
| 2.8    | 5K   | MAINSB.FOR   |                          |

## SIG/M VOLUME 3

EXPANDED ADVENTURE RUN TIME IMPLEMENTED FOR CP/M

| NUMBER | SIZE | NAME         | COMMENTS                    |
|--------|------|--------------|-----------------------------|
|        |      | -CATALOG.057 | CONTENTS OF SIG/M VOL. 3    |
|        |      | ABSTRACT.057 | NOTES ON EXPANDED ADVENTURE |
| 1.1    | 36K  | ADV.COM      |                             |
| 1.2    | 105K | ADVT.DAT     |                             |
| 1.3    | 31K  | ADVI.DAT     |                             |
| 1.4    | 4K   | ADVI.PTR     |                             |
| 1.5    | 15K  | ADVT.PTR     |                             |

## CPMUG: VOLUME 58

## MISCELLANEOUS CP/M UTILITIES

| SIZE  | NAME         | CONTENTS                                                                                                                              |
|-------|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
|       | -CATALOG.058 | CONTENTS OF CP/MUG VOL. 58                                                                                                            |
|       | SIG/M.LIB    | SUBMITTAL FORM                                                                                                                        |
|       | UGFORM.LIB   | SUBMITTAL FORM                                                                                                                        |
| 58.1  | 60K          | 3740UTIL.ASM                                                                                                                          |
| 58.2  | 8K           | 3740UTIL.DOC                                                                                                                          |
| 58.3  | 2K           | BDOS-PAT.ASM                                                                                                                          |
| 58.4  | 7K           | BMAP7/11.ASM                                                                                                                          |
|       | ** SOURCE ** | CP/MUG VOL. 47 ( A.K.A. FMAP7/11.ASM on some disks; otherwise - identical).                                                           |
| 58.5  | 1K           | CCPPATCH.ASM                                                                                                                          |
| 58.6  | 4K           | CHANGE.ASM                                                                                                                            |
| 58.7  | 8K           | CRCK3.ASM                                                                                                                             |
|       | ** SOURCE ** | CP/MUG VOL. 46 - identical.                                                                                                           |
| 58.8  | 5K           | DIRFIX.ASM                                                                                                                            |
| 58.9  | 9K           | DIRSIO/1.ASM                                                                                                                          |
| 58.10 | 1K           | DOWHILES.LIB                                                                                                                          |
| 58.11 | 16K          | DU-8/12.ASM                                                                                                                           |
|       | ** SOURCE ** | CP/MUG VOL. 46 - identical.                                                                                                           |
| 58.12 | 8K           | DUPUSR2.ASM                                                                                                                           |
| 58.13 | 4K           | EQUATES.LIB                                                                                                                           |
| 58.14 | 2K           | FILPRINT.ASM                                                                                                                          |
| 58.15 | 27K          | FINDBD37.ASM                                                                                                                          |
| 58.16 | 9K           | FMAP6/12.ASM                                                                                                                          |
| 58.17 | 16K          | MACROS.LIB                                                                                                                            |
| 58.18 | 2K           | NCOMPARE.LIB                                                                                                                          |
| 58.19 | 1K           | PGOEQU.ASM                                                                                                                            |
| 58.20 | 2K           | SELECTS.LIB                                                                                                                           |
| 58.21 | 1K           | SURVEY.COM                                                                                                                            |
|       | ** SOURCE ** | CP/MUG VOL. 46 - almost identical (1 byte off).                                                                                       |
| 58.22 | 13K          | SURVEY3.ASM                                                                                                                           |
|       | ** SOURCE ** | CP/MUG VOL. 46 - conditional assembly on this disk (58) selects I.M.S. controller; version on VOL. 46 selects the TARBELL controller. |
| 58.23 | 1K           | SYMSTACK.LIB                                                                                                                          |
| 58.24 | 1K           | WHENS.LIB                                                                                                                             |
| 58.25 | 8K           | XDIR6/28.ASM                                                                                                                          |

THIS VOLUME WAS ASSEMBLED BY SIG/M, A USERS GROUP IN NEW JERSEY.

CPMUG: VOLUME 59

8080/8085, MEMORY, ICOM DISK CONTROLLER DIAGNOSTICS

|      | SIZE | NAME         | COMMENTS                                       |
|------|------|--------------|------------------------------------------------|
|      |      | -CATALOG.059 | CONTENTS OF CP/MUG VOLUME 59                   |
|      |      | SIG/M.LIB    | SUBMITTAL FORM                                 |
|      |      | UGFORM.LIB   | SUBMITTAL FORM                                 |
| 59.1 | 14K  | CPUDIAG.ASM  | CPU TEST DIAGNOSTICS FOR 8080 AND 8085         |
| 59.2 | 2K   | CPUDIAG.DOC  | CPU TEST DIAGNOSTICS FOR 8080 AND 8085         |
| 59.3 | 12K  | MEMDIAG.DOC  | MEMORY DIAGNOSTICS                             |
| 59.4 | 34K  | MEMDIAG.ASM  | MEMORY DIAGNOSTICS                             |
| 59.5 | 73K  | 3712DIAG.ASM | ICOM SINGLE DENSITY DISK CONTROLLER DIAGNOSTIC |
| 59.6 | 93K  | 3812DIAG.ASM | ICOM DOUBLE DENSITY DISK CONTROLLER DIAGNOSTIC |
| 59.7 | 2K   | 3X12DIAG.DOC | ICOM DISK CONTROLLER DIAGNOSTICS               |
| 59.8 | 4K   | CP/M-NET.MSG | PROPOSED NETWORKING OF USER GROUPS             |

THIS VOLUME WAS ASSEMBLED BY SIG/M, A USERS GROUP IN NEW JERSEY.

## SIG/M VOLUME 6

6502 SIMULATOR - REFERENCE DR. DOBBS 8/80

6502 ZAPPLE MONITOR

|      | SIZE | NAME                         | CONTENTS                                                                        |
|------|------|------------------------------|---------------------------------------------------------------------------------|
|      |      | -CATALOG.060<br>ABSTRACT.060 | CONTENTS OF SIG/M VOL. 6<br>DESCRIPTION OF EACH MODULE<br>IN THE 6502 SIMULATOR |
| 6.1  | 11K  | ZILASM.COM                   | 6502 SIMULATOR                                                                  |
| 6.2  | 5K   | ZX65.COM                     |                                                                                 |
| 6.3  | 98K  | ZX65R.PRN                    |                                                                                 |
| 6.4  | 39K  | ZX65R.ZSM                    |                                                                                 |
| 6.5  | 15K  | ZXART.DOC                    |                                                                                 |
| 6.6  | 9K   | ZXHINTS.DOC                  |                                                                                 |
| 6.7  | 23K  | ZXLDR.PRN                    |                                                                                 |
| 6.8  | 7K   | ZXLDR.ZSM                    |                                                                                 |
| 6.9  | 1K   | ZXTAB1.DOC                   |                                                                                 |
| 6.10 | 1K   | ZXTAB2.DOC                   |                                                                                 |
| 6.11 | 1K   | ZXTAB3.DOC                   |                                                                                 |
| 6.12 | 1K   | ZXTAB4.DOC                   |                                                                                 |
| 6.13 | 2K   | CONCOD.LIB                   | CONTROL CODES FOR 6502 ZAPPLE<br>ZAPPLE MONITOR FOR 6502                        |
| 6.14 | 1K   | ZAPMON.MOS                   |                                                                                 |
| 6.15 | 5K   | ZAPMON.HEX                   |                                                                                 |
| 6.16 | 11K  | ZAP3.INS                     |                                                                                 |
| 6.17 | 3K   | ZAP5.INS                     |                                                                                 |
| 6.18 | 3K   | ZAP1.INS                     |                                                                                 |

## CPMUG: VOLUME 61

BULLETIN BOARD RELATED SOFTWARE SYSTEMS  
FILE TRANSFER UTILITIES  
CP/M UTILITIES

|       | SIZE | NAME         | COMMENTS                                                    |
|-------|------|--------------|-------------------------------------------------------------|
|       |      | -CATALOG.061 | CONTENTS OF CP/MUG VOLUME 61                                |
|       |      | SIG/M.LIB    | SUBMITTAL FORM                                              |
|       |      | UGFORM.LIB   | SUBMITTAL FORM                                              |
|       |      |              | BULLETIN BOARD RELATED SOFTWARE                             |
| 61.1  | 23K  | DCHBYE55.ASM | REMOTE CONSOLE FOR DC HAYES MODEM                           |
| 61.2  | 3K   | FLIP-8/8.ASM | SWITCH REMOTE CONSOLE TO ORIGINATE MODE                     |
| 61.3  | 5K   | TAG.ASM      | SET F1 BIT                                                  |
| 61.4  | 9K   | MLIST34.ASM  | TYPE COMMAND W/16K BUFFER                                   |
| 61.5  | 45K  | MODEM926.ASM | UPDATE OF CP/M USER GROUP 40.28                             |
| 61.6  | 21K  | PLINK925.ASM | UPDATE OF CP/M USER GROUP 19.4                              |
| 61.7  | 2K   | USER-8/8.ASM | REPLACES CP/M USER CMD ON REMOTE CPU                        |
| 61.8  | 20K  | XMODEM32.ASM | DC HAYES SUPPORT                                            |
| 61.9  | 4K   | PURGE.ASC    | REQUIRES MBASIC                                             |
| 61.10 | 20K  | RIBBS.ASC    | REQUIRES MBASIC                                             |
|       |      |              | FILE TRANSFER UTILITIES                                     |
| 61.11 | 7K   | MIC-XFER.ASM | DATA TRANSFER BETWEEN MICROPOLIS<br>CP/M 1.4 AND 8" SYSTEMS |
| 61.12 | 7K   | MIC-XFER.DOC | DATA TRANSFER DOCUMENTATION                                 |
| 61.13 | 3K   | XFER5-8.ASM  | TRANSFER FILES BETWEEN 5" AND 8"                            |
| 61.14 | 3K   | XFER8-5.ASM  | TRANSFER FILES BETWEEN 5" AND 8"                            |
| 61.15 | 5K   | V2FORMAT.ASM | VERSAFLOPPY SYSTEM                                          |
|       |      |              | CP/M UTILITIES                                              |
| 61.16 | 9K   | MENU.ASM     | CREATES MENU OF ALL .COM AND .BAS FILES                     |
| 61.17 | 5K   | MEM-MAP.ASM  | USE TO MAP RAM/ROM                                          |
| 61.18 | 8K   | MOVE6/12.ASM | SINGLE DRIVE COPY PROGRAM                                   |
| 61.19 | 8K   | RELDUMP.ASM  | DUMP MICROSOFT .REL FILES                                   |
| 61.20 | 1K   | SAP-FIX.DOC  | PATCHES FOR CP/M USER GROUP VOL. 19.8                       |
| 61.21 | 5K   | TEXCLEAN.ASM | CLEAR BIT 7 OF A TEXT FILE                                  |
| 61.22 | 2K   | TPA3.ASM     | COMPUTES SIZE OF TPA                                        |
| 61.23 | 3K   | Z80EXT.LIB   | EXTRA Z80 OPCODES                                           |

THIS VOLUME WAS ASSEMBLED BY SIG/M, A USERS GROUP IN NEW JERSEY.

## CPMUG VOLUME 62

## PASCAL and Communications related programs

## PASCAL related programs

|      |             |     |                                           |
|------|-------------|-----|-------------------------------------------|
| 8.01 | BOOT.ASM    | 1K  | Sample BOOT for PASCAL                    |
| 8.02 | BOOTER.DOC  | 3K  | PASCAL documentation for CP/M             |
| 8.03 | TEST.ASM    | 7K  | Scan and load 8080/Z80 Pascal interpreter |
| 8.04 | PAS2CPM.ASM | 8K  | Format conversion                         |
| 8.05 | PASCAL.ASM  | 7K  | Initialization of PASCAL system           |
| 8.06 | PASCAL.COM  | 17K |                                           |
| 8.07 | PASCAL.DOC  | 1K  |                                           |
| 8.08 | PASTOCPM    | 12K | Format conversion                         |
| 8.09 | PBOOT.ASM   | 1K  | Utilities to initialize PASCAL system     |
| 8.10 | PGEN.ASM    | 4K  |                                           |
| 8.11 | PGEN.COM    | 1K  |                                           |
| 8.12 | PINIT.ASM   | 6K  |                                           |
| 8.13 | READ.ME     | 2K  | PASCAL startup documentation              |

## Communications related programs

|      |              |     |                                                                         |
|------|--------------|-----|-------------------------------------------------------------------------|
| 8.14 | CHAT13.ASM   | 5K  | 2-way communications with remote caller                                 |
| 8.15 | DCHBYE57.ASM | 24K | Upgrade of remote console DCHBYE55 on SIG/M 7.01                        |
| 8.16 | MODEM5A.ASM  | 46K | Auto-dial and auto re-dial capability on DC Hayes and PMMI modem boards |
| 8.17 | PLNK1018.ASM | 21K | Upgrade of PLNK925 on SIG/M 7.6 and CP/M UG 19.4 with more modem types  |
| 8.18 | NEWBAUD.ASM  | 4K  | Switch BAUD rate on a remote PMMI to readjust modem speed               |
| 8.19 | RBBS22.ASC   | 20K | Update of RBBS in SIG/M volume 7                                        |
| 8.20 | RBBS22.DOC   | 6K  |                                                                         |
| 8.21 | RBSUTL22.ASC | 9K  |                                                                         |
| 8.22 | MBOOT3.ASM   | 8K  | Compacted version of MODEM for RECV only usage                          |
| 8.23 | XMODEM38.ASM | 24K | Update of SIG/M 7.8 - remote CP/M to CP/M transfer                      |

## CPMUG: VOLUME 63

|              |                             |
|--------------|-----------------------------|
| -CATALOG.063 | CONTENTS OF CPMUG VOLUME 63 |
| UGFORM.LIB   | SUBMITTAL FORM              |
| SIG/M.LIB    | SUBMITTAL FORM              |

| VOL.# | NAME         | SIZE | COMMENTS                                                                |
|-------|--------------|------|-------------------------------------------------------------------------|
| 63.01 | AUTOX.ASM    | 2K   | Forces a CP/M command from a user level                                 |
| 63.02 | CPYFIL15.ASM | 10K  | Copy large files greater than 512K through PIP utility                  |
| 63.03 | CRCK10/6.ASM | 11K  | Upgrade of CRCK3 in CPMUG 58.7                                          |
| 63.04 | DIRS1015.ASM | 9K   | Sorted directory from DIRS10/1 in CPMUG 58.9                            |
| 63.05 | DISPLAY.COM  | 3K   | Similar to DIR/ED.COM using display commands only                       |
| 63.06 | DISPLAY.DOC  | 3K   |                                                                         |
| 63.07 | DISPLAYP.ASM | 3K   |                                                                         |
| 63.08 | DU-10/26.ASM | 18K  | Update of disk utility in CPMUG 58.9                                    |
| 63.09 | FIND3/18.ASM | 10K  | Multiple file search routine                                            |
| 63.10 | FINDBD38.ASM | 29K  | Update to FINDBD37 for locating bad blocks of disk space in CPMUG 58.14 |
| 63.11 | LISTGRPS.ASC | 1K   | List track and sector assignment for each group                         |
| 63.12 | MDIR8/17.ASM | 10K  | Master directory by users in alphabetic sequence                        |
| 63.13 | MFT45.ASM    | 17K  | Dr. Dobbs single drive multi-file transfer program                      |
| 63.14 | MIC-XFER.ASM | 7K   | Micropolis and regular CP/M file transfer                               |
| 63.15 | MIC-XFER.DOC | 5K   |                                                                         |
| 63.16 | NFMAP.ASM    | 9K   | Sorted directory with option of writing file of names                   |
| 63.17 | NLIST.ASM    | 14K  | Lists disk file on LST: device                                          |
| 63.18 | SD-12/15.ASM | 17K  | Sorted directory with sizes                                             |
| 63.19 | SECTOR.ASM   | 10K  | Sector disk maintenance program                                         |
| 63.20 | SHOWGRP.ASC  | 2K   | Print track and sector addresses of groups                              |
| 63.21 | TERMTEST.ASM | 2K   | Terminal diagnostic program                                             |
| 63.22 | USERLST.ASM  | 3K   | Patch for displaying current user level within CP/M prompt              |
| 63.23 | VLIST11.ASM  | 8K   | Variable speed TYPE routine                                             |
| 63.24 | WHICH.ASM    | 4K   | Displays present CP/M release level                                     |
| 63.25 | MIKEBIOS.ASM | 8K   | Flash Writer I/O driver                                                 |

THIS VOLUME WAS ASSEMBLED BY SIG/M, A USERS GROUP IN NEW JERSEY.

## CPMUG: VOLUME 64

-CATALOG.064 CONTENTS OF CPMUG VOLUME 64  
 SIG/M.LIB \*\*\*\*\* AVAILABLE ON VOLUMES 55-59 \*\*\*\*\*  
 UGFORM.LIB SUBMITTAL FORM

| VOL.# | NAME | SIZE | COMMENTS |
|-------|------|------|----------|
|-------|------|------|----------|

|                 |                                                                                            |  |  |
|-----------------|--------------------------------------------------------------------------------------------|--|--|
| CPMUG volume 64 | Games, disassembler, North Star Basic patch for CP/M, CDOS simulator, and other utilities. |  |  |
|-----------------|--------------------------------------------------------------------------------------------|--|--|

|       |              |     |                                                        |
|-------|--------------|-----|--------------------------------------------------------|
| 64.01 | LANES.BAS    | 6K  | Games using MicroSoft Basic                            |
| 64.02 | JOURNAL.BAS  | 2K  |                                                        |
| 64.03 | GAMMONB.BAS  | 15K |                                                        |
| 64.04 | BLACKBOX.BAS | 3K  |                                                        |
| 64.05 | BOGGLE.BAS   | 1K  |                                                        |
| 64.06 | GAMMON.H19   | 11K | Heath terminal adaptation                              |
| 64.07 | NIM1.H19     | 8K  |                                                        |
| 64.08 | OTHELLO.H19  | 5K  |                                                        |
| 64.09 | STARWAR2.H19 | 12K |                                                        |
| 64.10 | ALS8CPM.ASM  | 17K | Converts Processor Tech assembler files to CP/M format |
| 64.11 | DIV16B.ASM   | 1K  | 16 bit division by 8 bit divisor                       |
| 64.12 | DSIM.LIB     | 5K  | CDOS calls for CP/M                                    |
| 64.13 | NSCPM48.ASM  | 22K | Patches to run North Star Basic under CP/M             |
| 64.14 | NSCPM48.DOC  | 8K  |                                                        |
| 64.15 | RETURN48.COM | 1K  |                                                        |
| 64.16 | REZ.ASM      | 33K | RESOURCE resurrected with .ASM                         |
| 64.17 | REZ.COM      | 7K  | a nifty 8080 disassembler                              |
| 64.18 | REZ.DOC      | 26K | modified for Z80 TDL op codes                          |
| 64.19 | REZ.Z80      | 36K | modified for Zilog op codes                            |

THIS VOLUME WAS ASSEMBLED BY SIG/M, A USERS GROUP IN NEW JERSEY.

## CPMUG VOLUME 65

- a) MITS to CP/M file conversion system
- b) HELP file system
- c) related system support programs
- d) FIG-FORTH 1.1 system

| number | name         | size | description                       |
|--------|--------------|------|-----------------------------------|
| 13.1   | MITSCNVT.ASM | 28K  | MITS to CP/M file conversion      |
| 13.2   | MITSCNVT.COM | 7K   | /                                 |
| 13.3   | MITSCNVT.CPM | 3K   | /                                 |
| 13.4   | MITSCNVT.DOC | 7K   | /                                 |
| 13.5   | MITSCNVT.HEX | 8K   | /                                 |
| 13.6   | ABORTSUB.COM | 2K   | HELP file system                  |
| 13.7   | HELP.ASM     | 13K  | /                                 |
| 13.8   | SYSLIB.HLP   | 37K  | /                                 |
| 13.9   | SYSLIB.REL   | 9K   | /                                 |
| 13.10  | HELP.COM     | 2K   | /                                 |
| 13.11  | MASM.SUB     | 1K   | /                                 |
| 13.12  | PHELP.COM    | 2K   | /                                 |
| 13.13  | PHELP.MAC    | 6K   | /                                 |
| 13.14  | HELP.DOC     | 4K   | /                                 |
| 13.15  | SD-2/6.ASM   | 18K  | updated SUPER DIRECTORY display   |
| 13.16  | SD.COM       | 2K   | /                                 |
| 13.17  | ENTAB.ASM    | 6K   | space suppression program         |
| 13.18  | ENTAB.COM    | 1K   | /                                 |
| 13.19  | UTIL.FOR     | 2K   | FORTRAN array handling subroutine |
| 13.20  | LOOPBAK1.BAS | 2K   | PMMI loop back test               |
| 13.21  | FORTH11.ASM  | 40K  | FIG-FORTH version 1.1             |
| 13.22  | FORTH11.COM  | 23K  | /                                 |
| 13.23  | FORTH11.DOC  | 4K   | /                                 |

## CFMUG VOLUME 66

## HELP file system on major system level software

| number | name         | size | description                 |
|--------|--------------|------|-----------------------------|
| 14.1   | HELP.COM     | 2K   | HELP file system describing |
| 14.2   | HELP.HLP     | 7K   | HELP file system            |
| 14.3   | CPM.HLP      | 31K  | CP/M 1.4                    |
| 14.4   | CPM2.HLP     | 37K  | CP/M 2.2                    |
| 14.5   | ASM.HLP      | 4K   | CP/M 1.4 ASM (assembler)    |
| 14.6   | ASM2.HLP     | 4K   | CP/M 2.2 ASM (assembler)    |
| 14.7   | MAC.HLP      | 8K   | CP/M MAC (macro assembler)  |
| 14.8   | MBASIC.HLP   | 21K  | Microsoft BASIC             |
| 14.9   | CBASIC.HLP   | 14K  | CBasic                      |
| 14.10  | EBASIC.HLP   | 12K  | Basic-E                     |
| 14.11  | CBASIC2.HLP  | 22K  | CBasic-2                    |
| 14.12  | MASM.HLP     | 8K   | MACRO-80 (M80)              |
| 14.13  | ALGOLM.HLP   | 13K  | ALGOL-M                     |
| 14.14  | C.HLP        | 17K  | BDS 'C'                     |
| 14.15  | FORTTRAN.HLP | 7K   | Microsoft Fortran           |
| 14.16  | PASCAL.HLP   | 10K  | PASCAL/MT                   |

CPMUG VOLUME 67

documentation catalog of CP/M UG volumes 1-42  
and SIG/M volumes 1-3 as published by the NYACC

This volume contains the various \*.DOC, ABSTRACT.\*, READ.ME, etc files as contained in the CP/M UG and SIG/M volumes. This was compiled and published by the NYACC to facilitate ready reference of public domain software for the micro-hobbyists. SIG/M volume 12 is the corresponding cross reference to this release.

CATALOG.nnn refers to a CP/M UG release volume nnn  
SIGMLOG.nnn refers to a SIG/M release volume nnn

SIG/M      volume 16      miscellaneous CP/M utilities

| number | name         | size | description                                                   |
|--------|--------------|------|---------------------------------------------------------------|
| 16.1   | BYE67.ASM    | 39K  | remote console program for PMMI                               |
| 16.2   | BYE67.DOC    | 12K  | /                                                             |
| 16.3   | MLIST42.ASM  | 12K  | multiple file list utility                                    |
| 16.4   | DU-V75.OBJ   | 6K   | disk utility system                                           |
| 16.5   | DU-V75.DOC   | 5K   | /                                                             |
| 16.6   | DU-V75.ASM   | 40K  | /                                                             |
| 16.7   | FINDBD42.ASM | 33K  | creates file of badspots                                      |
| 16.8   | APLMODEM.ASM | 36K  | CP/M file transfer for Apple 2<br>using DC Hayes Micromodem 2 |
| 16.9   | COMAND.LIB   | 7K   | console string processor                                      |
| 16.10  | COMBINE.ASM  | 7K   | merges multiple files                                         |
| 16.11  | FILE-XT2.ASM | 8K   | system disk utility display                                   |
| 16.12  | MNEMON21.ASM | 28K  | multi-pass CP/M memory tester                                 |

## Sig/M volume 17

## miscellaneous CP/M utilities

|       | Name         | Size | Description                                   |
|-------|--------------|------|-----------------------------------------------|
|       | -CATALOG.017 |      | contents of Sig/M volume 17                   |
|       | -CATALOG.ACK |      | acknowledgement file                          |
| 17.1  | SCRAMBLE.DOC | 2K   | command used to encode a CP/M file            |
| 17.2  | SCRAMBLE.ASM | 6K   | /                                             |
| 17.3  | SORTV.DOC    | 2K   | sort program for variable length records      |
| 17.4  | SORTV-12.ASM | 13K  | /                                             |
| 17.5  | TAG2.ASM     | 6K   | set/reset display the "no copy" flag          |
| 17.6  | MNEXEC.COM   | 3K   | MicroNet executive                            |
| 17.7  | MNOVRLAY.ASM | 4K   | overlay for MicroNet executive                |
| 17.8  | WHICH/1.ASM  | 4K   | returns size and version of CP/M              |
| 17.9  | STATUS.ASM   | 8K   | present various systems information under 2.2 |
| 17.10 | NEWQCAT.ASM  | 5K   | quick catalog routine                         |
| 17.11 | WORM8/8.ASM  | 7K   | memory test                                   |
| 17.12 | TFX12/18.ASM | 21K  | CP/M to CP/M file transfer utility            |
| 17.13 | XMODEM41.ASM | 29K  | remote CP/M to CP/M file transfer             |
| 17.14 | MOVPATCH.ASM | 3K   | modifies MOVCPM for remote access             |
| 17.15 | 21BIOS.ASM   | 48K  | new BIOS for CP/M 2.0                         |
| 17.16 | 21BIOS.DOC   | 3K   | /                                             |
| 17.17 | 21BOOT.ASM   | 4K   | /                                             |
| 17.18 | MACRO.LIB    | 18K  | /                                             |
| 17.19 | NPGEN.ASM    | 9K   | /                                             |
| 17.20 | SPCLMAC.LIB  | 4K   | /                                             |
| 17.21 | XDIR.ASM     | 13K  | updated CP/M directory display                |
| 17.22 | XDIR.COM     | 2K   | /                                             |

Sig/M volume 18 miscellaneous CP/M utilities

-CATALOG.018 catalog of Sig/M volume 18  
-CATALOG.ACK volume 18 acknowledgement file

|       | Name         | Size | Description                                 |
|-------|--------------|------|---------------------------------------------|
| 18.1  | 2411DUMP.ASM | 18K  | ICOM microfloppy utility                    |
| 18.2  | 2411DUMP.COM | 3K   | /                                           |
| 18.3  | MFMACRO.LIB  | 17K  | /                                           |
| 18.4  | 3812DUMP.ASM | 21K  | ICOM floppy utility                         |
| 18.5  | 3812DUMP.COM | 4K   | /                                           |
| 18.6  | DDMACRO.LIB  | 18K  | /                                           |
| 18.7  | AREACODE.ASM | 14K  | region and state area code search           |
| 18.8  | AREACODE.COM | 7K   | /                                           |
| 18.9  | BANZAI.ASM   | 9K   | copyright notice protect                    |
| 18.10 | CAT2.ASM     | 6K   | master catalog system for CP/M 2.X          |
| 18.11 | FMAP3.ASM    | 7K   | /                                           |
| 18.12 | UCAT2.ASM    | 8K   | /                                           |
| 18.13 | CHAT15.ASM   | 6K   | chat with local remote CP/M operator        |
| 18.14 | CHAT15.COM   | 1K   | /                                           |
| 18.15 | DISPLAYP.ASM | 3K   | display facilities of ED.COM                |
| 18.16 | DISPLAY.COM  | 2K   | /                                           |
| 18.17 | DISPLAY.DOC  | 3K   | /                                           |
| 18.18 | FILE-EXT.ASM | 7K   | display disk directory including hex data   |
| 18.19 | FILE-EXT.COM | 1K   | /                                           |
| 18.20 | FILE-XT2.ASM | 8K   | same as FILE-EXT.ASM with 2.X compatibility |
| 18.21 | FILE-XT2.COM | 1K   | /                                           |
| 18.22 | LOOK.ASM     | 7K   | searches for 1-9 byte sequence in memory    |
| 18.23 | LOOK.COM     | 1K   | /                                           |
| 18.24 | MACTIME.ASM  | 7K   | patch for real time clock in MAC.COM        |
| 18.25 | ASMTIME.ASM  | 7K   | patch for real time clock in ASM.COM        |
| 18.26 | STATTIME.ASM | 6K   | patch for real time clock in STAT.COM       |
| 18.27 | SAP.ASM      | 6K   | updated directory sort for CP/M 2.X         |
| 18.28 | SAP.COM      | 1K   | /                                           |
| 18.29 | XLOOK.ASM    | 13K  | disk/examine/modify utility                 |

## Sig/M volume 19

## miscellaneous Pascal Z programs

(original materials from Pascal Z User Group volume 1)

|              |              |                             |                                       |
|--------------|--------------|-----------------------------|---------------------------------------|
| -CATALOG.019 |              | contents of Sig/M volume 19 |                                       |
| -CATALOG.ACK |              | acknowledgement file        |                                       |
| ABSTRACT.019 |              | comments file               |                                       |
| CRCKFILE.019 |              | CRC of volume 19            |                                       |
| 19.1         | AUTOBOOT.ASM | 5K                          | autoboot on CP/M cold start           |
| 19.2         | AUTOBOOT.COM | 1K                          | /                                     |
| 19.3         | LINEARP.PAS  | 11K                         | simplex algorithm to minimize         |
| 19.4         | LINEARP.COM  | 21K                         | a cost function to constraints        |
| 19.5         | VARIANT.PAS  | 1K                          | demo for variant records              |
| 19.6         | VARIANT.COM  | 5K                          | /                                     |
| 19.7         | REVERSE.PAS  | 2K                          | demo for linked lists                 |
| 19.8         | REVERSE.COM  | 6K                          | /                                     |
| 19.9         | EDITFILE.PAS | 9K                          | adapted from S-100 Microsystems       |
| 19.10        | EDITFILE.COM | 13K                         | /                                     |
| 19.11        | RT.PAS       | 4K                          | demo program for non-text files       |
| 19.12        | RT.COM       | 8K                          | /                                     |
| 19.13        | STARS.PAS    | 6K                          | game                                  |
| 19.14        | STARS.COM    | 7K                          | /                                     |
| 19.15        | ADDN.PAS     | 1K                          | simple demo to add two numbers        |
| 19.16        | ADDN.COM     | 6K                          | /                                     |
| 19.17        | ZMNEMONS.DOC | 13K                         | programming aid                       |
| 19.18        | TRIAN.PAS    | 1K                          | demo on FOR loops                     |
| 19.19        | TRIAN.COM    | 4K                          | /                                     |
| 19.20        | CONCHAR.PAS  | 6K                          | utility for command line input        |
| 19.21        | SCAN2X.PAS   | 5K                          | file READ evaluation                  |
| 19.22        | SCAN2X.COM   | 8K                          | /                                     |
| 19.23        | STRDEMO.PAS  | 14K                         | demo on string functions              |
| 19.24        | STRLIB.DOC   | 4K                          | part of STRDEMO.PAS                   |
| 19.25        | LONG.PAS     | 3K                          | demo to string words together         |
| 19.26        | LONG.COM     | 7K                          | /                                     |
| 19.27        | MAKEREL.DOC  | 8K                          | convert REL. files from function blks |
| 19.28        | LIOS.ASM     | 7K                          | novice utility                        |
| 19.29        | CONVERT.PAS  | 1K                          | convert gas in liters                 |
| 19.30        | CONVERT.COM  | 6K                          | /                                     |
| 19.31        | COMPARE.!!!  | 11K                         | compare source code files from UCSD   |
| 19.32        | DUMP.ASM     | 23K                         | expanded CP/M DUMP program            |
| 19.33        | LSTR.PAS     | 2K                          | generates a line of various length    |

## Sig/M volume 20 PCE System Monitor

(original materials from Pascal Z User Group volume 2)

|       |              |      |                                                                                               |
|-------|--------------|------|-----------------------------------------------------------------------------------------------|
|       | -CATALOG.020 |      | contents of Sig/M volume 20                                                                   |
|       | CRCKFILE.020 |      | CRC of Sig/M volume 20                                                                        |
|       | ABSTRACT.020 |      | comments on PCE System Monitor                                                                |
| 20.1  | SYSMON.DOC   | 103K | Complete Manual of System Monitor                                                             |
| 20.2  | SYSMONA.Z80  | 2K   | Central subsystem module                                                                      |
| 20.3  | ASPM1.Z80    | 11K  | Command subsystem, module one                                                                 |
| 20.4  | ASPM2.Z80    | 12K  | Command subsystem, module two                                                                 |
| 20.5  | VECTOR.Z80   | 3K   | Intel I/O standard vector subsystem                                                           |
| 20.6  | CONSOL.Z80   | 14K  | Console subsystem                                                                             |
| 20.7  | DISK.Z80     | 5K   | Floppy disk subsystem, it ties CPM to the monitor so that both operate as an integrated whole |
| 20.8  | CASS.Z80     | 8K   | Cassette subsystem, controls the Dajen/Teletex UCRI, includes Zapple compatible (RI) & (PO)   |
| 20.9  | BMGEN.Z80    | 1K   | Bit map generator                                                                             |
| 20.10 | BMGEN.COM    | 1K   | /                                                                                             |
| 20.11 | LOADER.Z80   | 10K  | Static loader for system                                                                      |
| 20.12 | LOADER.COM   | 3K   | /                                                                                             |
| 20.13 | SYS.COM      | 16K  | Sys Monitor boot-up program                                                                   |
| 20.14 | ONE.HEX      | 14K  | Used with bringing up bit map                                                                 |
| 20.15 | ZERO.HEX     | 14K  | Used with bringing up bit map                                                                 |
| 20.16 | COPYTT.Z80   | 1K   | Sample command, similiar to a COM file, this one is a Disk subsystem test utility             |
| 20.17 | COPYTT.SMC   | 1K   | /                                                                                             |

## Sig/M volume 21

## miscellaneous Pascal Z utilities

(original materials from Pascal Z User Group volume 3)

-CATALOG.021 contents of Sig/M volume 21  
 ABSTRACT.021 comments on Sig/M volume 21  
 CRCKFILE.021 CRC of Sig/M volume 21

|       | Name        | Size | Description                                 |
|-------|-------------|------|---------------------------------------------|
| 21.1  | AUTHOR.PAS  | 10K  | general purpose "keyword in text"           |
| 21.2  | AUTHOR.COM  | 11K  | /                                           |
| 21.2a | ADDRESS     | 1K   | /                                           |
| 21.2b | BYTE.MAG    | 1K   | /                                           |
| 21.2c | S100.MAG    | 1K   | /                                           |
| 21.3  | CALC.PAS    | 12K  | calculator mode program                     |
| 21.4  | CALC.COM    | 16K  | /                                           |
| 21.5  | CPLDT.PAS   | 2K   | simple banner program                       |
| 21.6  | CPLDT.COM   | 5K   | /                                           |
| 21.7  | DELAY.PAS   | 1K   | general Pascal Z utilities                  |
| 21.8  | DELAY.REL   | 1K   | /                                           |
| 21.9  | DELAY.SRC   | 1K   | /                                           |
| 21.10 | INPORT.REL  | 1K   | /                                           |
| 21.11 | INPORT.SRC  | 1K   | /                                           |
| 21.12 | OUTPORT.REL | 1K   | /                                           |
| 21.13 | OUTPORT.SRC | 1K   | /                                           |
| 21.14 | KEYIN.REL   | 1K   | /                                           |
| 21.15 | KEYIN.SRC   | 1K   | /                                           |
| 21.16 | NAD.PAS     | 10K  | permuted keyword index program              |
| 21.17 | NAD.COM     | 11K  | /                                           |
| 21.18 | TDIABLO.MAC | 6K   | driver for Diablo w/Teletak FDC-1           |
| 21.19 | TDIABLO.COM | 1K   | /                                           |
| 21.20 | DIABLO.Z80  | 5K   | driver for Diablo w/SD Systems S100         |
| 21.21 | DIABLO.COM  | 1K   | /                                           |
| 21.22 | RANDOM.PAS  | 2K   | Fibonacci random number generator           |
| 21.23 | RANDOM.REL  | 1K   | /                                           |
| 21.24 | RANDOM.SRC  | 4K   | /                                           |
| 21.25 | REBOOT.COM  | 1K   | rebooting desired file                      |
| 21.26 | STRLIB.LIB  | 12K  | Pascal Z library                            |
| 21.27 | WUMPUS.PAS  | 12K  | Wumpus game in Pascal Z                     |
| 21.28 | WUMPUS.COM  | 15K  | /                                           |
| 21.29 | WUMPUS.DOC  | 4K   | /                                           |
| 21.30 | CAVE0       | 1K   | /                                           |
| 21.31 | CAVE1       | 1K   | /                                           |
| 21.32 | CAVE2       | 1K   | /                                           |
| 21.33 | CAVE4       | 1K   | /                                           |
| 21.34 | CAVE5       | 1K   | /                                           |
| 21.35 | ENTRY.PAS   | 6K   | creating SRC files                          |
| 21.36 | ENTRY.COM   | 9K   | /                                           |
| 21.37 | ENTRY.DOC   | 6K   | /                                           |
| 21.38 | PEEK.PAS    | 2K   | peek and poke in Pascal Z                   |
| 21.39 | POWERI.PAS  | 1K   | demo program on powers of numbers           |
| 21.40 | POWERI.COM  | 7K   | /                                           |
| 21.41 | POWERI.REL  | 2K   | /                                           |
| 21.42 | RDR.PAS     | 7K   | an alpha-numeric numbers conversion program |
| 21.43 | DU.Z80      | 29K  | updated disk utility using Z80 code         |
| 21.44 | DU.COM      | 4K   | /                                           |
| 21.45 | DU.DOC      | 1K   | /                                           |

## Sig/M volume 22

## miscellaneous Pascal Z utilities

(original materials from Pascal Z User Group volume 4)

|              |             |                                               |
|--------------|-------------|-----------------------------------------------|
| -CATALOG.022 |             | contents of Sig/M volume 22                   |
| ABSTRACT.022 |             | comments                                      |
| CRCKFILE.022 |             | CRC of volume 22                              |
| 22.1         | CFIO.LIB    | 2K program to open files                      |
| 22.2         | CONCORD.COM | 10K program that builds an alphabetical       |
| 22.3         | CONCORD.PAS | 11K listing of distinct words                 |
| 22.4         | COSINE.PAS  | 2K Cosine program                             |
| 22.5         | COSINE.REL  | 2K /                                          |
| 22.6         | COSINE.SRC  | 6K /                                          |
| 22.7         | GEN5.COM    | 8K demo on accessing CP/M files               |
| 22.8         | GEN5.PAS    | 5K /                                          |
| 22.9         | GRAPH1.COM  | 10K demo on creating a graphic representation |
| 22.10        | GRAPH1.PAS  | 1K / of a function.                           |
| 22.11        | ISORTV1.COM | 6K insertion sort with linked list            |
| 22.12        | ISORTV1.PAS | 4K /                                          |
| 22.13        | LINENOS.COM | 8K keep track of text lines                   |
| 22.14        | LINENOS.PAS | 4K /                                          |
| 22.15        | POINT.COM   | 6K demo on the use of pointers                |
| 22.16        | POINT.PAS   | 2K /                                          |
| 22.17        | RANDOM.MAC  | 4K "professional" random number generator     |
| 22.18        | RANDOM.PAS  | 1K simple random number generator             |
| 22.19        | SINCOS.SRC  | 5K sine/cosine utility                        |
| 22.20        | SINCOS.REL  | 1K /                                          |
| 22.21        | STRLIB.DOC  | 5K Ray Penley's latest updated string lib.    |
| 22.22        | STRLIB.LIB  | 13K /                                         |
| 22.23        | TRIG4.COM   | 9K simple Demo program that builds a          |
| 22.24        | TRIG4.PAS   | 2K / short Trig chart                         |
| 22.25        | XREFG2.COM  | 13K a binary tree type cross-ref generator    |
| 22.26        | XREFG2.PAS  | 18K /                                         |
| 22.27        | ZPTX.COM    | 8K very simple text formatter                 |
| 22.28        | ZPTX.PAS    | 8K /                                          |
| 22.29        | LESSON4.    | 5K /                                          |
| 22.30        | RECIPE.COM  | 12K recipe program                            |
| 22.31        | RECIPE.PAS  | 17K /                                         |
| 22.32        | RECIPE.MST  | 1K /                                          |
| 22.33        | RCPDAT.YYY  | 1K /                                          |
| 22.34        | FCLOSE.COM  | 8K three different ways to close a file       |
| 22.35        | FCLOSE.PAS  | 4K / in Pascal Z.                             |

Sig/M volume 23

MBasic disassembler  
Date Routines  
miscellaneous utilities

(original materials from Pascal Z User Group volume 5)

-CATALOG.023 contents of Sig/M volume 23  
ABSTRACT.023 comments  
CRCKFILE.023 CRC of Sig/M volume 23

23.1 EXPO.PAS demo on the use of exponents  
23.2 EXPO.COM /  
23.3 COMPARE.DOC UCSD program Compare documentation  
23.4 DISASMB.DOC disassembler in MICROSOFT Basic

## related modules

|          |     |          |     |          |     |
|----------|-----|----------|-----|----------|-----|
| 8085     | LST | 8085     | TAB | XREF     | BAS |
| ZILOG    | LST | ZILOG    | TAB | XREF     | SUB |
| INTEL    | LST | INTEL    | TAB | TDL      | LST |
| TDL      | TAB | LST8085  | BAS | LSTINTEL | BAS |
| LSTTDL   | BAS | LSTZILOG | BAS | TAB8085  | BAS |
| TABINTEL | BAS | TABTDL   | BAS | TABZILOG | BAS |
| DISASMB  | BAS |          |     |          |     |

23.5. DATE.DOC dates routines

## related modules

|          |     |          |     |          |     |
|----------|-----|----------|-----|----------|-----|
| PROMT    | LIB | MAKEDATE | LIB | RMAKEDA  | LIB |
| BRKDATE  | LIB | DASTRLON | LIB | DASTRSH  | LIB |
| DASTRFIX | LIB | DATE     | PAS | DATEFUNC | LIB |

23.6 MISC.DOC miscellaneous routines

## related modules

|        |     |         |     |        |     |
|--------|-----|---------|-----|--------|-----|
| GETINT | LIB | CAPCHAR | LIB | PADSTR | LIB |
| CAPSTR | LIB | DEPAD   | LIB | STRVAL | LIB |

23.7 HANOI COM/PAS

23.8 DIS.ASM/DOC

23.9 CONFER.PAS/COM conference scheduling

Sig/M volume 24

miscellaneous Pascal Z utilities

(original material from Pascal Z UG volume 6)

|              |              |     |                                   |
|--------------|--------------|-----|-----------------------------------|
| -CATALOG.024 |              |     | catalog of Sig/M volume 24        |
| -CATALOG.ACK |              |     | acknowledgement file              |
| ABSTRACT.024 |              |     | descriptive contents of volume 24 |
| CRCKFILE.024 |              |     | CRC of volume 24                  |
| 24.1         | COMPLEX.LIB  | 5K  | complex number utility            |
| 24.2         | CURSOR.LIB   | 2K  | cursor control for SD Sales video |
| 24.3         | CURSOR.PAS   | 3K  | /                                 |
| 24.4         | CURSOR.COM   | 7K  | /                                 |
| 24.5         | FINDBAD.MAC  | 7K  | locate bad sectors under CP/M 2.X |
| 24.6         | FINDBAD.COM  | 2K  | /                                 |
| 24.7         | LONGLINE.PAS | 2K  | concatenation demo                |
| 24.8         | LONGLINE.COM | 7K  | /                                 |
| 24.9         | NAD4.PAS     | 9K  | name address data entry           |
| 24.10        | NAD4.COM     | 9K  | /                                 |
| 24.11        | OTHELLO.PAS  | 6K  | Othello - UCSD version            |
| 24.12        | OTHELL1.PAS  | 8K  | /                                 |
| 24.13        | OTHELL2.PAS  | 8K  | /                                 |
| 24.14        | OTHELLIN.PAS | 8K  | /                                 |
| 24.15        | PTABLE.PAS   | 1K  | table generating demo             |
| 24.16        | PTABLE.COM   | 8K  | /                                 |
| 24.17        | PTRS2.PAS    | 4K  | pointer demo program              |
| 24.18        | PTRS2.COM    | 5K  | /                                 |
| 24.19        | QQSORT.PAS   | 4K  | Pascal - Quicker Sort             |
| 24.20        | QQSORT.LIB   | 3K  | /                                 |
| 24.21        | QQSORT.COM   | 8K  | /                                 |
| 24.22        | QSORT.COM    | 7K  | Pascal - Sort                     |
| 24.23        | QSORT.PAS    | 3K  | /                                 |
| 24.24        | QSORT.LIB    | 1K  | /                                 |
| 24.25        | RCPDAT.XXX   | 2K  | recipe program                    |
| 24.26        | RCPDAT.YYY   | 1K  | /                                 |
| 24.27        | RCPDAT.MST   | 1K  | /                                 |
| 24.28        | RECIPE.COM   | 15K | /                                 |
| 24.29        | RECIPE.PAS   | 20K | /                                 |
| 24.30        | SHELL.PAS    | 3K  | Pascal Shell sort                 |
| 24.31        | SHELL.COM    | 7K  | /                                 |
| 24.32        | SHELL.LIB    | 1K  | /                                 |
| 24.33        | SNOOPY81.CAL | 5K  | 1981 calendar                     |
| 24.34        | XREF.PAS     | 10K | cross reference program           |
| 24.35        | XREF.COM     | 14K | /                                 |
| 24.36        | ZCOMPAR.PAS  | 2K  | Pascal file compare utility       |
| 24.37        | ZCOMPAR.COM  | 7K  | /                                 |
| 24.38        | F1.DAT       | 1K  | /                                 |
| 24.39        | F2.DAT       | 1K  | /                                 |

## Sig/M volume 25

database seed system  
 multi-track system BIOS  
 fixed length disk sort system  
 print format program

(original materials from Pascal Z User Group volume 7)

|              |              |                                          |
|--------------|--------------|------------------------------------------|
| -CATALOG.025 |              | contents of Sig/M volume 25              |
| -CATALOG.ACK |              | acknowledgement file                     |
| ABSTRACT.025 |              | comments on Sig/M volume 25              |
| CRCKFILE.025 |              | CRC of Sig/M volume 25                   |
| 25.1         | DATABASE.DOC | 32K database seed program by Dr. Bowles  |
| 25.2         | DBBUILDE.CPM | 22K /                                    |
| 25.3         | DBDEMO.CPM   | 1K /                                     |
| 25.4         | DBUNIT.1     | 8K /                                     |
| 25.5         | DBUNIT.2     | 19K /                                    |
| 25.6         | DBUNIT.3     | 22K /                                    |
| 25.7         | DBUNIT.4     | 17K /                                    |
| 25.8         | DBUNIT.CPM   | 1K /                                     |
| 25.9         | SGEN.COM     | 2K BIOS for greater than 2 system tracks |
| 25.10        | SGEN.MAC     | 10K /                                    |
| 25.11        | MACROZ.MAC   | 18K /                                    |
| 25.12        | CLIB.MAC     | 9K /                                     |
| 25.13        | SGEN.DOC     | 5K /                                     |
| 25.14        | BSORT.ASM    | 40K fixed length disk sort program       |
| 25.15        | BSORT.COM    | 4K /                                     |
| 25.16        | BSORT.NOT    | 4K /                                     |
| 25.17        | PGLST.PAS    | 3K print format program                  |
| 25.18        | PGLST.COM    | 8K /                                     |
| 25.19        | PGLST.NOT    | 1K /                                     |
| 25.20        | W3UA.LIB     | 6K /                                     |

Sig/M.026

games  
 a simple mail label system  
 electrical engineering package  
 ham notebook  
 front panel emulator  
 VersaFloppy II double density BIOS

-CATALOG.026  
 -CATA026.ACK  
 CRCKLIST.026

contents of Sig/M.026  
 acknowledgement file  
 checksum file

| index | name         | size | notes                                    |
|-------|--------------|------|------------------------------------------|
| 26.01 | CHEAT.ADV    | 3K   | unofficial ADVENTURE cheat sheet         |
| 26.02 | CHEAT.DOC    | 1K   | /                                        |
| 26.03 | VEGAS.ASM    | 26K  | super slot machine                       |
| 26.04 | EL-E.BAS     | 18K  | electrical engineering/design system     |
| 26.05 | EL-E.INT     | 16K  | /                                        |
| 26.06 | EL-E.DOC     | 2K   | /                                        |
| 26.07 | QSO.BAS      | 1K   | ham notebook - CBASIC                    |
| 26.08 | QSOEDIT.BAS  | 4K   | /                                        |
| 26.09 | QSOMERGE.BAS | 2K   | /                                        |
| 26.10 | QSOFIND.BAS  | 1K   | /                                        |
| 26.11 | QSOSCAN.BAS  | 4K   | /                                        |
| 26.12 | QSOLIST.BAS  | 1K   | /                                        |
| 26.13 | QSO.DOC      | 2K   | /                                        |
| 26.14 | SYSMON.ASM   | 36K  | front panel emulator                     |
| 26.15 | SYSMON.COM   | 5K   | /                                        |
| 26.16 | SYSMON.DOC   | 6K   | /                                        |
| 26.17 | SVC.LIB      | 1K   | /                                        |
| 26.18 | MYDDBIOS.Z80 | 13K  | VersaFloppy II double density BIOS       |
| 26.19 | MYDDBIOS.DOC | 4K   | /                                        |
| 26.20 | DDSKBIOS.ASM | 2K   | /                                        |
| 26.21 | MYBOOT.Z80   | 2K   | /                                        |
| 26.22 | FORMAT.Z80   | 10K  | /                                        |
| 26.23 | SYSGEN.Z80   | 4K   | /                                        |
| 26.24 | XEDIT.BAS    | 3K   | simple mail label system - data entry    |
| 26.25 | XEDIT.INT    | 2K   | /                                        |
| 26.26 | XMERGE.BAS   | 2K   | file merge                               |
| 26.27 | XMERGE.INT   | 1K   | /                                        |
| 26.28 | XSCAN.BAS    | 2K   | delete items from master                 |
| 26.29 | XSCAN.INT    | 1K   | /                                        |
| 26.30 | XEXTRACT.BAS | 2K   | extract items from master                |
| 26.31 | XEXTRACT.INT | 1K   | /                                        |
| 26.32 | XLIST.BAS    | 1K   | list items from master                   |
| 26.33 | XLIST.INT    | 1K   | /                                        |
| 26.34 | XLABELS.BAS  | 2K   | mail label print                         |
| 26.35 | XLABELS.INT  | 1K   | /                                        |
| 26.36 | XFIND.BAS    | 1K   | /query of master                         |
| 26.37 | XFIND.INT    | 1K   | /                                        |
| 26.38 | XTEL.BAS     | 1K   | / query by telephone number              |
| 26.39 | XTEL.INT     | 1K   | /                                        |
| 26.40 | XMAIL.DOC    | 3K   | simple mail label system - documentation |

BASIC-E(EBASIC.COM and RUN.COM), SCRAMBLE and CRCK have been included in the distribution to facilitate access.

Sig/M.029            documentation addendum #1 of SIG/M and CPMUG  
                     catalog of public domain software volumes

(original edition contained in Sig/M.015)

This volume contains the various \*.DOC, ABSTRACT.\*, READ.ME, etc files as contained in the CPMUG and SIG/M volumes. This was compiled and published to facilitate ready reference of public domain software for the micro-hobbiests.

CATALOG.nnn refers to a CPMUG release volume nnn  
SIGMLOG.nnn refers to a SIG/M release volume nnn

Sig/M.030            documentation addendum #2 of SIG/M and CPMUG  
                     catalog of public domain software volumes

(original edition contained in Sig/M.015 and Sig/M.029)

This volume contains the various \*.DOC, ABSTRACT.\*, READ.ME, etc files as contained in the CPMUG and SIG/M volumes. This was compiled and published to facilitate ready reference of public domain software for the micro-hobbiests.

CATALOG.nnn refers to a CPMUG release volume nnn  
SIGMLOG.nnn refers to a SIG/M release volume nnn

## Sig/M volume 40 Miscellaneous System Support Utilities

-CATALOG.040 Contents of Sig/M volume 40  
ACKLIST.040 Acknowledgement File  
CRCKLIST.040 Checksum File

|       |              |     |                                     |
|-------|--------------|-----|-------------------------------------|
| 40.01 | ISIS/CPM.ASM | 25K | Prom Resident ISIS System Emulator  |
| 40.02 | ISIS/CPM.DOC | 6K  | /                                   |
| 40.03 | VMAP.BAS     | 6K  | MBasic Variable Mapper              |
| 40.04 | VMAP.DOC     | 2K  | /                                   |
| 40.05 | VMAP-SUB.DOC | 2K  | /                                   |
| 40.06 | QUMEDRV.ASM  | 4K  | Prom Resident Qume Driver           |
| 40.07 | QUMEINST.ASM | 4K  | /                                   |
| 40.08 | CHARFREQ.BAS | 2K  | Character Frequency Analysis        |
| 40.09 | XFERTIME.BAS | 2K  | File Transfer Time Program for RCPM |
| 40.10 | PAUSWAIT.ASM | 8K  | Pause Option for SUBMIT             |
| 40.11 | COMP2.ASM    | 8K  | Text Compression Routine            |
| 40.12 | COMP2.COM    | 1K  | /                                   |
| 40.13 | EXP2.ASM     | 10K | Text Expansion of COMP2             |
| 40.14 | EXP2.COM     | 1K  | /                                   |
| 40.15 | MENU-V2.ASM  | 18K | Menu Driver                         |
| 40.16 | MENU-V2.COM  | 1K  | /                                   |
| 40.17 | RUN80-V2.ASM | 40K | Text Formatter                      |
| 40.18 | RUN80-V2.COM | 4K  | /                                   |
| 40.19 | RUN80.MEM    | 10K | /                                   |
| 40.20 | RUN80.RND    | 9K  | /                                   |
| 40.21 | HOST.Z80     | 10K | File Load Between CP/M and Z8000    |
| 40.22 | HOST.DOC     | 2K  | /                                   |
| 40.23 | HOST.COM     | 1K  | /                                   |
| 40.24 | MDS.Z80      | 14K | MDS FDC Emulator                    |
| 40.25 | MDS.PRN      | 16K | /                                   |

|       |              |                                   |                                 |
|-------|--------------|-----------------------------------|---------------------------------|
| Sig/M | volume 41    | Cromemco CDOS-CP/M System Support |                                 |
|       | -CATALOG.041 | Contents of Sig/M Volume 41       |                                 |
|       | ABSTRACT.041 | Random Notes on Sig/M Volume 41   |                                 |
|       | ACKLIST.041  | Acknowledgement File              |                                 |
|       | CRCKLIST.041 | Checksum File                     |                                 |
| 41.01 | CDOSCOPY.Z80 | 12K                               | CDOS Disk Copy Program          |
| 41.02 | CDOSCOPY.COM | 2K                                | /                               |
| 41.03 | CDOSCOPY.PRN | 26K                               | /                               |
| 41.04 | CDOSFMAP.ASM | 9K                                | Modified Disk Cataloging System |
| 41.05 | CDOSFMAP.HEX | 3K                                | for CDOS                        |
| 41.06 | CDOSFMAP.PRN | 17K                               | /                               |
| 41.07 | CDOSFMAP.COM | 1K                                | /                               |
| 41.08 | UCAT.ASM     | 9K                                | /                               |
| 41.09 | UCAT.HEX     | 5K                                | /                               |
| 41.10 | UCAT.PRN     | 28K                               | /                               |
| 41.11 | CDOSSAP.Z80  | 9K                                | CDOS Sort and Pack Directory    |
| 41.12 | CDOSSAP.PRN  | 19K                               | /                               |
| 41.13 | CDOSSAP.COM  | 1K                                | /                               |
| 41.14 | FDCBIOS.DOC  | 6K                                | Updated BIOS for 16FDC and 4FDC |
| 41.15 | FDCBIOS.HEX  | 2K                                | /                               |
| 41.16 | FDCBIOS.Z80  | 15K                               | /                               |
| 41.17 | FDCBIOS.PRN  | 36K                               | /                               |
| 41.18 | FDCBOOT.HEX  | 1K                                | /                               |
| 41.19 | FDCBOOT.Z80  | 2K                                | /                               |
| 41.20 | FDCBOOT.PRN  | 5K                                | /                               |
| 41.21 | XEROX.Z80    | 13K                               | FAST Copy ss/sd = 40 seconds    |
| 41.22 | XEROX.COM    | 2K                                | ss/dd = 70 seconds              |

|       |              |     |                                                                                                  |
|-------|--------------|-----|--------------------------------------------------------------------------------------------------|
| Sig/M | Volume 42    |     | SD Sales Hard Disk Support<br>File Utilities - Pertec and CP/M<br>WordMaster Customization Notes |
|       | -CATALOG.042 |     | Contents of Sig/M Volume 42                                                                      |
|       | ACKLIST.042  |     | Acknowledgement File                                                                             |
|       | CRCKLIST.042 |     | Checksum File                                                                                    |
|       | ABSTRACT.042 |     | Random Notes on Sig/M Volume 42                                                                  |
| 42.01 | HD-BIOS.Z80  | 30K | VersaFloppy 2/XComp/Seagate                                                                      |
| 42.02 | HD-BIOS.HEX  | 5K  | /                                                                                                |
| 42.03 | FDOS.ASM     | 29K | File Access - Pertec FDOS and CP/M                                                               |
| 42.04 | FDOS.COM     | 3K  | /                                                                                                |
| 42.05 | MTX.ASM      | 36K | File Access - Pertec MTX Basic                                                                   |
| 42.06 | MTX.COM      | 5K  | and CP/M                                                                                         |
| 42.07 | MTX2000.ASM  | 36K | File Access - Double Density MTX                                                                 |
| 42.08 | MTX2000.COM  | 5K  | Basic and CP/M                                                                                   |
| 42.09 | PCC2000B.ASM | 8K  | Expanded Access for PCC 2000                                                                     |
| 42.10 | PCC2000B.COM | 1K  | /                                                                                                |
| 42.11 | WMNOTES      | 2K  | WordMaster Customization Notes                                                                   |
| 42.12 | WM.CTL       | 1K  | /                                                                                                |
| 42.13 | WM.DOC       | 8K  | /                                                                                                |
| 42.14 | WM.SYM       | 11K | /                                                                                                |
| 42.15 | BYE.Z80      | 37K | Remote Control Program for CDOS                                                                  |

Sig/M volume 43 8080 TINCMP Compiler and  
Pidgin Programming System  
CP/M-86 Bios Support

-CATALOG.043 contents of Sig/M volume 43  
released November 25, 1981  
ABSTRACT.043 abstract of Sig/M volume 43  
ACKLIST.043 acknowledgement file  
CRCKLIST.043 checksum of Sig/M volume 43

| index | name         | size | description                  |
|-------|--------------|------|------------------------------|
| 43.01 | DESCRIP .DOC | 16K  | details of TINCMP and PIDGIN |
| 43.02 | IOCMPLX .ASM | 19K  | PIDGIN programming system    |
| 43.03 | IOCMPLX .REL | 2K   | /                            |
| 43.04 | MACROS .PGN  | 8K   | /                            |
| 43.05 | PIDGIN .S2M  | 10K  | /                            |
| 43.06 | PIDGINLB.REL | 1K   | /                            |
| 43.07 | PIDMATH .ASM | 5K   | /                            |
| 43.08 | PIDMATH .REL | 1K   | /                            |
| 43.09 | STAGE2 .COM  | 12K  | STAGE2 support system        |
| 43.10 | SYSTEM .ASM  | 1K   | PIDGIN programming           |
| 43.11 | SYSTEM .REL  | 1K   | /                            |
| 43.12 | TINCMP .COM  | 17K  | TINCMP compiler              |
| 43.13 | TINCMP .MAC  | 20K  | /                            |
| 43.14 | TINCMP .PGN  | 12K  | /                            |
| 43.15 | TINCMP .REL  | 5K   | /                            |
| 43.16 | TINTEST1.PGN | 3K   | /                            |
| 43.17 | TINTEST2.PGN | 3K   | /                            |
| 43.18 | TINTEST3.PGN | 1K   | /                            |
| 43.19 | TINTEST4.PGN | 3K   | /                            |
| 43.20 | TINTEST5.PGN | 2K   | /                            |
| 43.21 | TINTEST6.PGN | 2K   | /                            |
| 43.22 | WC .PGN      | 2K   | TINCMP test program          |
| 43.23 | WRNXT .ASM   | 1K   | PIDGIN console I/O           |
| 43.24 | WRNXT .REL   | 1K   | /                            |
| 43.25 | CBIOS .A86   | 17K  | CP/M-86 Bios                 |
| 43.26 | GOCPM86 .ASM | 1K   | /                            |
| 43.27 | ERQ .A86     | 3K   | /                            |
| 43.28 | SD .A86      | 15K  | CP/M-86 directory sort       |

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Sig/M Volume 48 Communication Utilities  
Miscellaneous CP/M Support

-CATALOG.048 contents of Sig/M volume 48  
released November 25, 1981  
ACKLIST.048 acknowledgement file  
CRCKLIST.048 checksum of Sig/M volume 48

| index | name          | size | description                       |
|-------|---------------|------|-----------------------------------|
| 48.01 | CARRY12 .ASM  | 6K   | pause prior to load of .COM files |
| 48.02 | MODEM7 .DOC   | 16K  | update of Modem7 program          |
| 48.03 | MODEM7 .LIB   | 14K  | /                                 |
| 48.04 | MODEM7 .SET   | 3K   | /                                 |
| 48.05 | MODEM73 .ASM  | 63K  | /                                 |
| 48.06 | MODEM73 .OBJ  | 10K  | /                                 |
| 48.07 | SENDOUT3.ASM  | 5K   | sendout utility for PMMI          |
| 48.08 | UNSPPOOL .ASM | 13K  | DESPPOOL look-alike               |
| 48.09 | UNSPPOOL .DOC | 8K   | /                                 |
| 48.10 | USRDFLT2.CCP  | 15K  | pseudo CCP User                   |
| 48.11 | USRPW34 .ASM  | 17K  | password for User access control  |
| 48.12 | XMODEM46.ASM  | 39K  | remote CP/M file transfer program |
| 48.13 | SQ .COM       | 14K  | pack ASCII file                   |
| 48.14 | USQ .COM      | 10K  | unpack ASCII file                 |

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Sig/M Volume 49 Accounts Payable/Receivable System  
Master DataBase System

-CATALOG.049 contents of Sig/M volume 49  
released December 7, 1981  
ABSTRACT.049 comments of programs

| index | name         | size | crc   | description                 |
|-------|--------------|------|-------|-----------------------------|
| 49.01 | ADDADR .ASM  | 1K   | 3B 9E | Accounts Payable/Receivable |
| 49.02 | ARCOMMON.DCL | 1K   | 1B BD | #                           |
| 49.03 | ARCUSTM .DCL | 2K   | B5 66 | #                           |
| 49.04 | ARLINK .SUB  | 1K   | 07 4D | /                           |
| 49.05 | ARM000 .ASM  | 2K   | FC 1B |                             |
| 49.06 | ARM010 .ASM  | 2K   | A3 71 |                             |
| 49.07 | ARM011 .ASM  | 3K   | 7B B1 |                             |
| 49.08 | ARM020 .ASM  | 2K   | 92 00 |                             |
| 49.09 | ARM030 .ASM  | 2K   | F7 13 |                             |
| 49.10 | ARM040 .ASM  | 2K   | 7B E1 |                             |
| 49.11 | ARM050 .ASM  | 2K   | 7B F3 |                             |
| 49.12 | ARM060 .ASM  | 2K   | C3 5B |                             |
| 49.13 | ARM070 .ASM  | 2K   | 2E 0D |                             |
| 49.14 | ARP000 .PLI  | 3K   | 9C FC |                             |
| 49.15 | ARP000 .SUB  | 1K   | A2 F8 |                             |
| 49.16 | ARP010 .PLI  | 12K  | DE 8F |                             |
| 49.17 | ARP010 .SUB  | 1K   | 0B 1A |                             |
| 49.18 | ARP020 .PLI  | 6K   | 3C A0 |                             |
| 49.19 | ARP020 .SUB  | 1K   | 91 13 |                             |
| 49.20 | ARP030 .PLI  | 6K   | A3 75 |                             |
| 49.21 | ARP030 .SUB  | 1K   | 64 48 |                             |
| 49.22 | ARP040 .PLI  | 8K   | 4A 2F |                             |
| 49.23 | ARP040 .SUB  | 1K   | 27 49 |                             |
| 49.24 | ARP050 .PLI  | 5K   | C5 79 |                             |
| 49.25 | ARP050 .SUB  | 1K   | AC AE |                             |
| 49.26 | ARP060 .PLI  | 5K   | F7 8C |                             |
| 49.27 | ARP060 .SUB  | 1K   | 1B 69 |                             |
| 49.28 | ARP070 .PLI  | 6K   | F2 AF |                             |
| 49.29 | ARP070 .SUB  | 1K   | 46 6D |                             |
| 49.30 | CHAIN .ASM   | 6K   | 3B EA | /                           |
| 49.31 | GETD92 .PLI  | 2K   | E7 5D | Master DataBase System      |
| 49.32 | MDBSAMS .PLI | 1K   | 8F 26 | #                           |
| 49.33 | MDBSCALL.SUB | 1K   | 9A 0D | #                           |
| 49.34 | MDBSCL .ASM  | 4K   | 7C 48 | #                           |
| 49.35 | MDBSCL01.ASM | 3K   | 0B AF | #                           |
| 49.36 | MDBSCL02.ASM | 4K   | F6 0C | #                           |
| 49.37 | MDBSCL03.ASM | 3K   | 71 33 | /                           |
| 49.38 | MDBSCRS .PLI | 1K   | B5 5F |                             |
| 49.39 | MDBSDRM .PLI | 1K   | 42 49 |                             |
| 49.40 | MDBSER .ASM  | 6K   | 2B AE |                             |
| 49.41 | MDBSER .PLI  | 5K   | 0B 5E |                             |
| 49.42 | MDBSFFM .PLI | 1K   | 9E 13 |                             |
| 49.43 | MDBSFMSK.PLI | 1K   | F5 55 |                             |
| 49.44 | MDBSFNM .PLI | 1K   | 1D F0 |                             |
| 49.45 | MDBSGETM.PLI | 1K   | B7 A1 |                             |
| 49.46 | MDBSPLII.ASM | 5K   | E8 5B |                             |
| 49.47 | MDBSPLII.SUB | 1K   | EA FD |                             |
| 49.48 | MDBSPUTM.PLI | 1K   | F6 D0 |                             |
| 49.49 | MDBSRMS .PLI | 1K   | B8 6A | /                           |

|       |         |      |     |       |   |
|-------|---------|------|-----|-------|---|
| 49.50 | MDBSSOM | .PLI | 1K  | 55 D3 | / |
| 49.51 | MODEM   | .ASM | 12K | 34 31 | / |
| 49.52 | OUTTEL  | .PLI | 1K  | 41 D8 | / |
| 49.53 | OUTZIP  | .PLI | 1K  | 5A 53 | / |
| 49.54 | PLIAUX  | .SUB | 1K  | 85 DC | / |
| 49.55 | PUTERR  | .PLI | 1K  | 19 B4 | / |
| 49.56 | SCRNMAC | .LIB | 3K  | 06 33 | / |
| 49.57 | SCRRTN  | .ASM | 29K | 34 02 | / |
| 49.58 | SUBS1   | .SUB | 1K  | 27 7D | / |

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Sig/M Volume 50 DTC Hard Disk Bios Support  
Voice Synthesis System

-CATALOG.050 contents of Sig/M volume 50  
released December 13, 1981

| index | name          | size | crc   | description                |
|-------|---------------|------|-------|----------------------------|
| 50.01 | BIOS1 .       | 6K   | 48 8B | DTC Hard Disk Bios Support |
| 50.02 | BIOS2 .       | 16K  | 27 EA |                            |
| 50.03 | BIOS3 .       | 12K  | D2 A6 |                            |
| 50.04 | BIOS4 .       | 2K   | 51 FA |                            |
| 50.05 | BOOT .        | 5K   | 6B 7B |                            |
| 50.06 | CONFIG .      | 3K   | 8F 81 |                            |
| 50.07 | DTC .         | 6K   | E3 B3 |                            |
| 50.08 | DTCLOAD .ASM  | 5K   | AC AE |                            |
| 50.09 | DTCLOAD .COM  | 1K   | 26 B9 |                            |
| 50.10 | DTCLOAD .HEX  | 2K   | 1D 9B |                            |
| 50.11 | DTCLOAD .PRN  | 10K  | DF 04 |                            |
| 50.12 | FORMAT .      | 16K  | 24 04 |                            |
| 50.13 | GBC .         | 4K   | 65 3A |                            |
| 50.14 | INSTALL .     | 4K   | 81 69 |                            |
| 50.15 | MODEL .       | 1K   | 78 73 |                            |
| 50.16 | README .      | 6K   | 99 38 |                            |
| 50.17 | ROM .         | 4K   | 67 00 |                            |
| 50.18 | SBC .         | 4K   | 3B 56 |                            |
| 50.19 | STSCMD .      | 4K   | 3E 54 |                            |
| 50.20 | STSCMD .SUB   | 1K   | 78 A9 |                            |
| 50.21 | STSCOPY .     | 19K  | AD DB |                            |
| 50.22 | STSCOPY .SUB  | 1K   | 72 B4 |                            |
| 50.23 | SYSCMD .      | 4K   | C1 D9 |                            |
| 50.24 | SYSCMD .SUB   | 1K   | CF 1F |                            |
| 50.25 | SYSTEM .SUB   | 2K   | 95 4E |                            |
| 50.26 | U .ASM        | 4K   | 69 2D | Select Drive and User Area |
| 50.27 | U .COM        | 1K   | A3 25 | with One Command           |
| 50.28 | U .HEX        | 2K   | 83 3F |                            |
| 50.29 | U .PRN        | 6K   | A3 59 |                            |
| 50.30 | TALK@ .LIB    | 1K   | 25 09 | Voice Synthesis System     |
| 50.31 | VMAC .ASM     | 3K   | 0F C7 |                            |
| 50.32 | VMAC .HEX     | 1K   | E6 C9 |                            |
| 50.33 | VMAC .PRN     | 5K   | 5F 7D |                            |
| 50.34 | VOICE@ .DOC   | 3K   | 58 BC |                            |
| 50.35 | VOICE@ .LIB   | 18K  | C4 79 |                            |
| 50.36 | VOICE@EQU.LIB | 6K   | 11 D6 |                            |
| 50.37 | VRMAC .ASM    | 3K   | D4 88 |                            |
| 50.38 | VRMAC .HEX    | 1K   | 56 D3 |                            |
| 50.39 | VRMAC .PRN    | 5K   | A4 53 |                            |
| 50.40 | YESMASTR.VOC  | 1K   | FF A2 |                            |

Sig/M Volume 52      Sig/M-CPMUG Cross Reference  
 un'P'rotect MBasic Programs

-CATALOG.052      contents of Sig/M volume 52  
 ABSTRACT.052      Sig/M volume 52 documentation

| index | name         | size | crc   | description                |
|-------|--------------|------|-------|----------------------------|
| 52.01 | CAT .COM     | 1K   | 26 32 | catalog system             |
| 52.02 | FMAP .COM    | 2K   | 8C 9F | /                          |
| 52.03 | UCAT .COM    | 2K   | 50 37 | /                          |
| 52.04 | CATALIST.BAS | 8K   | 98 84 | cross reference system     |
| 52.05 | CATALIST.COM | 22K  | 35 54 | /                          |
| 52.06 | SCATPAD .BAS | 2K   | 4B EB | /                          |
| 52.07 | SCATPAD .COM | 15K  | D2 6A | /                          |
| 52.08 | SCAT .       | 69K  | 9C 35 | Sig/M-CPMUG reference data |
| 52.09 | MAST .CAT    | 72K  | 8C CB | /                          |
| 52.10 | TestProt.BAS | 1K   | ED 76 | sample 'P'rotected file    |
| 52.11 | UN .COM      | 5K   | 6B 74 | un'P'rotect MBasic program |

\* this cross reference listing along with Sig/M volumes 29, and 30 are contained in Book 2 of "The Catalog of Public Domain Software" published by the New York Amateur Computer Club Inc.

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Sig/M Volume 54 Z80 Command Processor Replacement  
 Capture CONIN and CONOUT Onto Disk  
 2.2 Bios For Thinker Toys

-CATALOG.054 contents of Sig/M volume 54  
 released February 2, 1982

| index | name         | size | crc   | description               |
|-------|--------------|------|-------|---------------------------|
| 54.01 | BDOSLOC .ASM | 2K   | EB D4 | Z80 Command Processor     |
| 54.02 | DISK .DIR    | 1K   | 5C CE | CCP 2.2 Replacement       |
| 54.03 | READ .ME     | 6K   | D7 AB | /                         |
| 54.04 | SIG/M .SUB   | 4K   | 15 86 | /                         |
| 54.05 | ZCPR .ASM    | 51K  | 7A 46 | /                         |
| 54.06 | ZCPR .DOC    | 45K  | 94 B7 | /                         |
| 54.07 | ZCPR .HLP    | 15K  | 26 9D | /                         |
| 54.08 | ZCPR .WS     | 40K  | A2 C2 | /                         |
| 54.09 | I/O-CAP .ADD | 1K   | 74 31 | Capture CONIN and CONOUT  |
| 54.10 | I/O-CAP .ASM | 19K  | A2 1A | onto a disk file          |
| 54.11 | TTBOOT .ASM  | 3K   | C9 01 | 2.2 Bios for Thinker Toys |
| 54.12 | TTCBIOS .ASM | 7K   | B5 80 | /                         |
| 54.13 | TTSDDJ .HLP  | 4K   | 93 EB | /                         |

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## VOLUME 060

DESCRIPTION: preliminary version of SIG/M #60

| NUMBER | SIZE | NAME         | COMMENTS                                |
|--------|------|--------------|-----------------------------------------|
|        |      | CATALOG.060  | CONTENTS OF SIG/M VOL. 060              |
| 060.1  | 002K | CRCK.COM     | file checksum program                   |
| 060.2  | 002K | D.COM        | restricted directory list program       |
| 060.3  | 017K | D-24.ASM     | "                                       |
| 060.4  | 002K | D-24.COM     | "                                       |
| 060.5  | 008K | DUPUSR2.ASM  | program to duplicate file in user areas |
| 060.6  | 001K | DUPUSR2.COM  | "                                       |
| 060.7  | 003K | FLIP4.ASM    | program to flip originate/answer mode   |
| 060.8  | 001K | FLIP4.COM    | "                                       |
| 060.9  | 013K | MLIST50.ASM  | multiple file lister program            |
| 060.10 | 002K | MLIST50.COM  | "                                       |
| 060.11 | 008K | ENTBBS25.ASC | remote bulletin board system            |
| 060.12 | 018K | MINBBS25.ASC | Ø                                       |
| 060.13 | 006K | RBBS22.DOC   | Ø                                       |
| 060.14 | 023K | RBBS25.ASC   | Ø                                       |
| 060.15 | 009K | RBSUTL22.ASC | Ø                                       |
| 060.16 | 012K | SD-41.DOC    | super directory listing program         |
| 060.17 | 047K | SD-42.ASM    | Ø                                       |
| 060.18 | 002K | SD-42.COM    | Ø                                       |
| 060.19 | 002K | SIG/M.LIB    | SIG/M program submittal form            |
| 060.20 | 009K | FLS-11.COM   | file squeeze/ unsqueeze system          |
| 060.21 | 002K | MFT.COM      | Ø                                       |
| 060.22 | 014K | SQ-15.COM    | Ø                                       |
| 060.23 | 001K | SQ/USQ15.DOC | Ø                                       |
| 060.24 | 023K | SQUEEZER.DOC | Ø                                       |
| 060.25 | 010K | USQ-15.COM   | Ø                                       |

Sig/M volume 76 Screen based editor in C language

Software Tools of Australia  
Extracts from Volume 8

-CATALOG.076 contents of Sig/M volume 76  
released October 27, 1982

CRC .COM checksum program  
SIG/M .LIB donation form

| index  | name         | size | crc   | description                   |
|--------|--------------|------|-------|-------------------------------|
| 076.01 | SETUP .ED    | 3K   | E2 C0 | introduction to editor        |
| 076.02 | ED .PRN      | 9K   | AF 5A | enhancements                  |
| 076.03 | ED .DOC      | 4K   | F8 27 | commands                      |
| 076.04 | ED0 .C       | 1K   | 5C 62 | C -Language source files      |
| 076.05 | ED1 .CCC     | 1K   | 7A 00 | /                             |
| 076.06 | ED2 .C       | 9K   | 5A 5F | /                             |
| 076.07 | ED3 .C       | 16K  | 9D E4 | /                             |
| 076.08 | ED4 .C       | 8K   | 29 DB | /                             |
| 076.09 | ED5 .C       | 2K   | F3 DB | /                             |
| 076.10 | ED6 .C       | 1K   | EA CC | /                             |
| 076.11 | ED7 .C       | 3K   | BF D7 | /                             |
| 076.12 | ED8 .C       | 5K   | 62 FD | /                             |
| 076.13 | ED9 .C       | 3K   | D3 8B | /                             |
| 076.14 | ED10 .C      | 6K   | 30 33 | /                             |
| 076.15 | ED .C        | 1K   | 60 44 | master include file           |
| 076.16 | MBUFFER .MAC | 1K   | DA C2 | M80 buffer                    |
| 076.17 | ED/H19 .COM  | 25K  | F7 B6 | compiled H19 editor           |
| 076.18 | ED .SUB      | 1K   | AD 66 | Software Toolworks C SUB file |
| 076.19 | L80 .SUB     | 1K   | 0D C0 | SUB file for L80 Linking      |
| 076.20 | FAST .ASM    | 21K  | F9 17 | updated FAST program          |
| 076.21 | FAST2 .OBJ   | 3K   | 46 45 | to speed up operation         |
| 076.22 | FAST2MAN.DOC | 21K  | 87 0C | of CP/M 2.2                   |
| 076.23 | PACKUP .ASM  | 15K  | 63 BB | /                             |
| 076.24 | REL .UTL     | 2K   | 5C E4 | /                             |
| 076.25 | RELED .SUB   | 1K   | 9C B0 | /                             |
| 076.26 | RELFAS .SUB  | 1K   | 06 3F | /                             |
| 076.27 | SIDFAST .SUB | 1K   | A4 7A | /                             |
| 076.28 | UTL .LIB     | 3K   | A6 84 | /                             |
| 076.29 | KID .ASM     | 3K   | FD F9 | keyboard redefinition         |
| 076.30 | KID/KIP .DOC | 2K   | 2A E1 | utility with input            |
| 076.31 | KIP .ASM     | 3K   | BC 8B | patch                         |
| 076.32 | SDIR .BAS    | 3K   | DF 3B | MBASIC dir sort               |
| 076.33 | SURVEY4 .ASM | 14K  | 09 B8 | system memory map-BDOS,       |
| 076.34 | SURVEY4 .COM | 2K   | 66 CE | BIOS, ROM,ports, etc.         |
| 076.35 | UNERA .ASM   | 11K  | D0 FD | updated recover erased        |
| 076.36 | UNERA .COM   | 1K   | 79 FE | -with wildcards               |
| 076.37 | WCT3 .C      | 4K   | 0C 65 | updated file word count       |
| 076.38 | WCT3 .COM    | 6K   | 1E 6A | now show cols of printing     |

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Sig/M volume 77 ZCPR - an enhancement to replace  
the CP/M CCP

-CATALOG.077 contents of Sig/M volume 77  
released October 27, 1982

CRC .COM checksum program  
SIG/M .LIB donation form

| index  | name         | size | crc   | description |
|--------|--------------|------|-------|-------------|
| 077.01 | ZCPR .AQM    | 34K  | 87 32 | ZCPR 1.0    |
| 077.02 | ZCPR .ASM    | 51K  | 7A 46 | /           |
| 077.03 | ZCPR-16 .ASM | 66K  | CB 0F | ZCPR 1.6    |
| 077.04 | NZCPR-16.DIF | 24K  | D2 53 | /           |
| 077.05 | NZCPR-16.DOC | 2K   | A7 C4 | /           |
| 077.06 | NZCPR-16.DQF | 17K  | 3D 17 | /           |

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Sig/M volume 78 Software Tools of Australia -  
extracts from volume 11

-CATALOG.078 contents of Sig/M volume 78  
released October 27, 1982

CRC .COM checksum program  
SIG/M .LIB donation form

| index  | name          | size | crc   | description               |
|--------|---------------|------|-------|---------------------------|
| 078.01 | BENCHMK .BAS  | 2K   | 80 94 | several benchmark tests   |
| 078.02 | BENCHMK .C    | 4K   | 21 6A | in various languages      |
| 078.03 | BENCHMK .FOR  | 5K   | 09 E1 | /                         |
| 078.04 | BENCHMK .PAS  | 3K   | A6 20 | /                         |
| 078.05 | BENCHMK .DOC  | 6K   | 90 1F | /                         |
| 078.06 | BIGTIME .BAS  | 15K  | E5 BE | adds video controls       |
| 078.07 | CALENDAR.BAS  | 2K   | D2 6D | calendar generator 81     |
| 078.08 | DECR .C       | 2K   | D5 33 | strips carriage returns   |
| 078.09 | CLIST .C      | 3K   | 73 BC | lists "C" source files    |
| 078.10 | CLIST .OBJ    | 8K   | B1 0E | including included files  |
| 078.11 | CMPBUFLC.C    | 1K   | 59 DE | /                         |
| 078.12 | CPYBUF .C     | 1K   | 87 69 | /                         |
| 078.13 | DETAB .C      | 1K   | 03 D2 | /                         |
| 078.14 | DIAGN .C      | 1K   | 72 D1 | /                         |
| 078.15 | FILENM .C     | 1K   | 20 49 | /                         |
| 078.16 | INCL .C       | 1K   | F1 17 | /                         |
| 078.17 | INSTR .C      | 1K   | BB E1 | /                         |
| 078.18 | PAGIN8 .C     | 2K   | D0 A3 | /                         |
| 078.19 | DISKDEF .ASM  | 1K   | 20 8F | modified version of       |
| 078.20 | DISKDEF .LIB  | 7K   | 47 6E | diskdef macros            |
| 078.21 | FPRIME .BAS   | 1K   | 5C A2 | MBASIC prime no.benchmark |
| 078.22 | FPRIME .C     | 1K   | 5B 19 | C prime no. benchmark     |
| 078.23 | INTERRUPT.ASM | 8K   | E3 63 | interrupt handler for SS1 |
| 078.24 | L2NEW .C      | 25K  | 40 89 | enhanced L2 BDS C linker  |
| 078.25 | MOVECOM .DOC  | 1K   | A5 22 | Spellbinder command -     |
| 078.26 | MOVECOM .WPM  | 2K   | 50 07 | moves ASM file comments   |
| 078.27 | MXREF .BAS    | 6K   | 37 7F | MBASIC cross ref utility  |
| 078.28 | SHELL .MAC    | 14K  | C0 2A | memory resident SUB type  |
| 078.29 | SHELLSORT.MAC | 5K   | E8 22 | shell sort add-on code    |
| 078.30 | SURVIVAL.BAS  | 16K  | DF CE | CBASIC 2 game             |
| 078.31 | SURVIVAL.OBJ  | 19K  | F4 74 | /                         |
| 078.32 | TALK1-5 .ASM  | 23K  | BF DA | interrupt driven modem    |
| 078.33 | TALK1-5 .DOC  | 2K   | 77 8D | program for Zilog SIOs    |
| 078.34 | TALK1-5 .OBJ  | 2K   | 1C 67 | /                         |
| 078.35 | TIME .ASM     | 2K   | 2B 7E | displays time on console  |
| 078.36 | TIME .OBJ     | 1K   | 10 20 | with Godbout SS1          |

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Sig/M volume 79 PL/I-80TM User's Group Library

-CATALOG.079 contents of Sig/M volume 79  
released October 27, 1982

CRC .COM checksum program  
ABSTRACT.079 comments from PLUG  
DOC .079 DOC file for disk

| index  | name         | size | crc   | description              |
|--------|--------------|------|-------|--------------------------|
| 079.01 | ACCESS .OVL  | 2K   | 67 2D | Inventory and            |
| 079.02 | ACCESS .PLI  | 2K   | 25 36 | point-of-sale            |
| 079.03 | ATTRIB .DCL  | 1K   | DE 84 | system                   |
| 079.04 | COMP .SUB    | 1K   | 61 69 | !                        |
| 079.05 | CREATE .OVL  | 2K   | 54 F1 | !                        |
| 079.06 | CREATE .PLI  | 2K   | 5F 3A | !                        |
| 079.07 | DATA .DAT    | 1K   | E1 A7 | !                        |
| 079.08 | DEF .DAT     | 1K   | 8A 64 | !                        |
| 079.09 | ID .PLI      | 2K   | 7D 95 | !                        |
| 079.10 | KEY .DAT     | 1K   | 67 CB | !                        |
| 079.11 | KEY .DCL     | 1K   | F5 01 | !                        |
| 079.12 | LINK1 .SUB   | 1K   | 9D 5C | !                        |
| 079.13 | LINK2 .SUB   | 1K   | 79 4C | !                        |
| 079.14 | MENU .COM    | 13K  | 23 EF | !                        |
| 079.15 | MENU .PLI    | 3K   | A6 EF | !                        |
| 079.16 | REPORT .OVL  | 2K   | 48 96 | /                        |
| 079.17 | REPORT .PLI  | 1K   | CC 64 | /                        |
| 079.18 | SALE .OVL    | 5K   | 6E E8 | /                        |
| 079.19 | SALE .PLI    | 4K   | 21 51 | /                        |
| 079.20 | SETDEF .OVL  | 3K   | D3 6B | /                        |
| 079.21 | SETDEF .PLI  | 2K   | 0D 66 | /                        |
| 079.22 | SETKEY .OVL  | 2K   | 3B C1 | /                        |
| 079.23 | SETKEY .PLI  | 1K   | 11 37 | /                        |
| 079.24 | UPDATE .OVL  | 1K   | 6E 1F | /                        |
| 079.25 | UPDATE .PLI  | 2K   | 92 27 | /                        |
| 079.26 | COPY .PLI    | 9K   | 0C A7 | File copy utility with   |
| 079.27 | COPY .SUB    | 1K   | 9B E6 | query for verification   |
| 079.28 | ERAQ .PLI    | 5K   | CA 21 | File erase utility with  |
| 079.29 | ERAQ .SUB    | 1K   | 84 77 | query for verification   |
| 079.30 | FCBS .PLI    | 12K  | AB FE | Utility counts FCSs on   |
| 079.31 | FCBS .SUB    | 1K   | 6A 0D | a drive                  |
| 079.32 | FCB .DCL     | 1K   | CA 80 | FCB declaration include  |
| 079.33 | DIOMOD .DCL  | 2K   | 30 A2 | PL/I-80 interface for    |
| 079.34 | PLIDIO .ASM  | 21K  | B4 5C | direct BIOS calls        |
| 079.35 | PLIBIOS .DCL | 1K   | 99 15 | /                        |
| 079.36 | PLIBIOS .ASM | 6K   | 79 CC | /                        |
| 079.37 | MPMCALLS.PLI | 13K  | B3 21 | PL/I-80 interface for    |
| 079.38 | MPMCALLS.SUB | 1K   | BE C7 | direct MP/M calls        |
| 079.39 | MPMCALLC.PLI | 8K   | A7 4D | /                        |
| 079.40 | MPMDIO .DCL  | 2K   | 46 71 | /                        |
| 079.41 | MPMDIO .ASM  | 15K  | E8 5F | /                        |
| 079.42 | CHAIN .ASM   | 3K   | 0E 53 | chains two PL/I programs |
| 079.43 | CHAIN .SUB   | 1K   | 51 7D | /                        |
| 079.44 | CH1 .PLI     | 2K   | 55 61 | /                        |
| 079.45 | CH2 .PLI     | 1K   | 85 B2 | /                        |
| 079.46 | PARSE .PLI   | 4K   | 08 7D | CP/M file parsing        |
| 079.47 | FPARSE .PLI  | 4K   | 6F A2 | routines with and        |
| 079.48 | PTEST .PLI   | 2K   | E7 7E | without wildcards        |
| 079.49 | PTEST .SUB   | 1K   | 32 FE | /                        |

|        |               |      |       |       |                     |
|--------|---------------|------|-------|-------|---------------------|
| 079.50 | ADUMP         | .PLI | 2K    | DB A3 | hex memory dump     |
| 079.51 | ODUMP         | .PLI | 2K    | 15 B7 | routines            |
| 079.52 | AODUMP        | .PLI | 2K    | 3C 2A | /                   |
| 079.53 | DUMPTTEST.PLI | 1K   | D3 39 | /     |                     |
| 079.54 | DUMPTTEST.SUB | 1K   | E7 73 | /     |                     |
| 079.55 | HEXBIN        | .PLI | 1K    | 26 00 | converts hex string |
| 079.56 | HEXTEST       | .PLI | 1K    | D8 46 | to fixed            |
| 079.57 | HEXTEST       | .SUB | 1K    | C7 9A | /                   |

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Sig/M volume 80 extracts from Pascal Z Users Group  
-volume 16

-CATALOG.080 contents of Sig/M volume 80  
released October 27, 1982

CRC .COM checksum program  
ABSTRACT.080 comments from Pascal Z UG

| index  | name         | size | crc   | description                |
|--------|--------------|------|-------|----------------------------|
| 080.01 | ARTIL .DOC   | 3K   | 3E CF | simulated 2 player         |
| 080.02 | ARTIL/M .PAS | 10K  | 90 A0 | artillery duel             |
| 080.03 | ARTIL/Z .COM | 13K  | C1 AC | /                          |
| 080.04 | ARTIL/Z .PAS | 11K  | 95 FA | /                          |
| 080.05 | CALENDAR.DOC | 2K   | 29 0E | how to for Snoopy & Pinup  |
| 080.06 | CHECKLN .COM | 8K   | 50 BD | module to write dollar     |
| 080.07 | CHECKLN .PAS | 4K   | 00 56 | amounts in text form       |
| 080.08 | CONACT .PSP  | 1K   | 95 D2 | Pascal/M and UCSD console  |
| 080.09 | CONSOLE .DOC | 4K   | E0 79 | control procedures for     |
| 080.10 | GOTOXY .PSP  | 2K   | EC 55 | Micro-Term ACT-IV          |
| 080.11 | PINUP82 .CAL | 9K   | 03 BC | 1982 - bare facts          |
| 080.12 | RANDOM .PSP  | 1K   | 4E B7 | random no. generator       |
| 080.13 | SAMPLE .DOC  | 5K   | 82 A5 | speed tests in a           |
| 080.14 | SAMPLE/C.BAS | 2K   | 0E AB | variety of                 |
| 080.15 | SAMPLE/C.C   | 1K   | 1B 80 | languages                  |
| 080.16 | SAMPLE/C.COM | 4K   | 19 B8 | /                          |
| 080.17 | SAMPLE/M.PAS | 1K   | 39 09 | /                          |
| 080.18 | SAMPLE/N.BAS | 1K   | C0 DB | /                          |
| 080.19 | SAMPLE/S.BAS | 2K   | 5D BB | /                          |
| 080.20 | SAMPLE/S.COM | 3K   | C9 57 | /                          |
| 080.21 | SAMPLE/Z.COM | 6K   | 1A 5E | /                          |
| 080.22 | SAMPLE/Z.PAS | 1K   | 1B BC | /                          |
| 080.23 | SIGHTRED.COM | 15K  | 11 F3 | formulae for spherical     |
| 080.24 | SIGHTRED.DOC | 2K   | BC CB | triangle calculations for  |
| 080.25 | SIGHTRED.PAS | 4K   | 1D 89 | celestial navigation       |
| 080.26 | SNOOPY82.CAL | 5K   | 17 F3 | last chance for 1982       |
| 080.27 | SDRT .DOC    | 2K   | BD 45 | modification of NAD-3      |
| 080.28 | SDRT .PAS    | 4K   | F0 61 | (name and address) program |
| 080.29 | SDRT .PAS    | 2K   | 8E 09 | /                          |
| 080.30 | TED .COM     | 17K  | 26 59 | Simple Text Editor         |
| 080.31 | TED .DOC     | 23K  | DD 8F | /                          |

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Sig/M volume 81 Pascal Z Users Group - volume 17

-CATALOG.081 contents of Sig/M volume 81  
released October 27, 1982

ABSTRACT.081 comments from Pascal Z UG  
(see also DISK.DOC)

| index  | name         | size | crc   | description               |
|--------|--------------|------|-------|---------------------------|
| 081.01 | CONSTS .PAS  | 1K   | D0 E7 | constant declarations     |
| 081.02 | COPY .SRC    | 4K   | E6 72 | text copy procedure       |
| 081.03 | DISK .DOC    | 11K  | 73 92 | DOC file for this disk    |
| 081.04 | FF .COM      | 6K   | 66 DB | resets printer and issues |
| 081.05 | FF .PAS      | 1K   | F4 C9 | form feeds - set now for  |
| 081.06 | FF .SUB      | 1K   | 29 6B | IDS "Paper Tiger"         |
| 081.07 | GETFILES.PAS | 2K   | 09 84 | read file names           |
| 081.08 | IMPLEMNT.DOC | 5K   | 77 28 | how to use these programs |
| 081.09 | PP .COM      | 19K  | DD 86 | pretty print              |
| 081.10 | PP .PAS      | 20K  | D2 7D | /                         |
| 081.11 | PP .SUB      | 1K   | 02 23 | /                         |
| 081.12 | PRETTY .SUB  | 1K   | BB 82 | /                         |
| 081.13 | PRINT .COM   | 12K  | 33 AC | print unitity - set       |
| 081.14 | PRINT .PAS   | 7K   | 79 A2 | now for IDS "Paper        |
| 081.15 | PRINT .SUB   | 1K   | 74 07 | Tiger"                    |
| 081.16 | PROCS .PAS   | 2K   | 64 EB | declares procedures       |
| 081.17 | SPACE .SRC   | 1K   | B2 9C | determines free space     |
| 081.18 | SYSTEM .TEX  | 9K   | 08 4D | text processor            |
| 081.19 | SYSTP .TEX   | 45K  | 4A CE | /                         |
| 081.20 | SYSUT .TEX   | 9K   | A1 64 | /                         |
| 081.21 | TP .COM      | 25K  | 81 29 | /                         |
| 081.22 | TP .PAS      | 40K  | 9F 45 | /                         |
| 081.23 | TP .SUB      | 1K   | EF AC | /                         |
| 081.24 | TYPES .PAS   | 1K   | 5F 5B | type definitions          |
| 081.25 | XREF .COM    | 11K  | 23 9A | cross reference           |
| 081.26 | XREF .PAS    | 6K   | FA 55 | /                         |
| 081.27 | XREF .SUB    | 1K   | B8 9C | /                         |

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Sig/M volume 82 Pascal Z Users Group - volume 18  
(complete JRT PASCAL)

-CATALOG.082 contents of Sig/M volume 82  
released October 27, 1982

CRC .COM checksum program  
ABSTRACT.082 comments from Pascal Z UG

| index  | name         | size | crc   | description          |
|--------|--------------|------|-------|----------------------|
| 082.01 | ARCTAN .INT  | 1K   | 08 EC | external function    |
| 082.02 | ARCTAN .PAS  | 2K   | A8 96 | /                    |
| 082.03 | CONVERTM.INT | 4K   | 66 51 | Microsoft utility    |
| 082.04 | COS .INT     | 1K   | 30 EC | external function    |
| 082.05 | COS .PAS     | 2K   | B1 89 | /                    |
| 082.06 | CUSTOMIZ.INT | 1K   | A7 9B | system customization |
| 082.07 | DEBUG .INT   | 1K   | A5 F8 | debug procedure      |
| 082.08 | ERASE .INT   | 1K   | EC CF | file delete          |
| 082.09 | EXEC .COM    | 23K  | 95 59 | run time environment |
| 082.10 | EXP .INT     | 2K   | 61 0C | external function    |
| 082.11 | EXP .PAS     | 2K   | 45 E7 | /                    |
| 082.12 | JGRAF .INT   | 5K   | BC 53 | graph preparation -  |
| 082.13 | JGRAF .PAS   | 8K   | 22 B4 | external procedure   |
| 082.14 | JRTASM .INT  | 16K  | 08 DD | assembler            |
| 082.15 | JRTPAS2 .COM | 21K  | B3 84 | JRT Pascal compiler  |
| 082.16 | JSTAT .INT   | 1K   | 4B 25 | statistics -         |
| 082.17 | JSTAT .PAS   | 3K   | 8E 8F | external procedure   |
| 082.18 | LETTERS .INT | 2K   | 83 34 | block letters proc.  |
| 082.19 | LINKER .INT  | 4K   | 40 F9 | linker               |
| 082.20 | LN .INT      | 1K   | 68 1B | external function    |
| 082.21 | LN .PAS      | 2K   | 51 04 | /                    |
| 082.22 | PASCAL .LIB  | 13K  | 78 AB | JRT Pascal compiler  |
| 082.23 | PASCAL0 .INT | 21K  | 32 0B | components           |
| 082.24 | PASCAL1 .INT | 7K   | AA 2E | /                    |
| 082.25 | PASCAL2 .INT | 5K   | 9C 26 | /                    |
| 082.26 | PASCAL3 .INT | 9K   | C2 E7 | /                    |
| 082.27 | PASCAL4 .INT | 1K   | B3 A0 | /                    |
| 082.28 | RENAME .INT  | 1K   | F7 66 | rename file          |
| 082.29 | RESETBIT.ASM | 1K   | 35 97 | sample asm proc.     |
| 082.30 | SETBIT .ASM  | 1K   | C7 17 | sample asm proc.     |
| 082.31 | SIN .INT     | 1K   | 4E C8 | external function    |
| 082.32 | SIN .PAS     | 1K   | 63 90 | /                    |
| 082.33 | SQRT .INT    | 1K   | C8 E3 | external function    |
| 082.34 | SQRT .PAS    | 1K   | 2F 03 | /                    |
| 082.35 | TESTBIT .ASM | 1K   | F5 1B | sample asm proc      |

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Sig/M volume 83 Software Tools of Australia - Vol. 12

-CATALOG.083 Contents of SIG/M volume 83  
released November 1, 1982

CRC .COM checksum program  
SIG/M .LIB submission form

| index  | name         | size | crc   | description                    |
|--------|--------------|------|-------|--------------------------------|
| 083.01 | ICE .DOC     | 5K   | FF C9 | "In Context Editor" -          |
| 083.02 | ICE .PLI     | 30K  | 1E B6 | experimental line editor.      |
| 083.03 | ICE .REL     | 20K  | C8 9D | Presents a window over a       |
| 083.04 | ICE .SUB     | 1K   | 59 6C | file on the CRT. Editing       |
| 083.05 | ICE-EDIT.PLI | 13K  | 12 A9 | commands are on the bottom     |
| 083.06 | ICE-END .PLI | 1K   | 3E 12 | line. ADM-31 supports all      |
| 083.07 | ICE-GP .PLI  | 11K  | 6C FE | functions.                     |
| 083.08 | ICE-MAIN.PLI | 4K   | 0E 33 | /                              |
| 083.09 | ICE-MAKE.SUB | 1K   | 7C BA | /                              |
| 083.10 | ICE-VDU .PLI | 2K   | 39 4A | /                              |
| 083.11 | TTHelp0 .DAT | 2K   | 1F DB | Comprehensive touchtyping      |
| 083.12 | TTHelp1 .DAT | 2K   | 86 F9 | tutor in MBASIC and compiled   |
| 083.13 | TTHelp2 .DAT | 1K   | 37 46 | BASIC. Set for ADM-31 but      |
| 083.14 | TTHelp3 .DAT | 1K   | 0B 60 | adjustable for terminal        |
| 083.15 | TTHelp4 .DAT | 1K   | 47 6C | with direct cursor addressing. |
| 083.16 | TTHelp5 .DAT | 1K   | 1C E0 | CRT displays keyboard.         |
| 083.17 | TTKEYBD .DAT | 1K   | 7D AA | /                              |
| 083.18 | TTYPE .BAS   | 22K  | F6 A6 | /                              |
| 083.19 | TTYPE .OBJ   | 22K  | 90 64 | /                              |
| 083.20 | TTYPE .DOC   | 19K  | AF B7 | /                              |
| 083.21 | TTYPE .WST   | 20K  | B1 A3 | /                              |
| 083.22 | TTYPEXA .DAT | 1K   | 1C E8 | /                              |
| 083.23 | TTYPEXB .DAT | 2K   | C9 FC | /                              |
| 083.24 | TTYPEXC .DAT | 3K   | A3 FD | /                              |
| 083.25 | TTYPEXD .DAT | 2K   | B9 41 | /                              |
| 083.26 | TTYPEXE .DAT | 2K   | A6 21 | /                              |
| 083.27 | TTYPEXF .DAT | 2K   | C9 1E | /                              |
| 083.28 | TTYPEXG .DAT | 2K   | 46 27 | /                              |
| 083.29 | TTYPEXH .DAT | 3K   | FF 8E | /                              |
| 083.30 | TTYPEXI .DAT | 3K   | 1B 9B | /                              |
| 083.31 | TTYPEXJ .DAT | 3K   | 04 49 | /                              |

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Sig/M volume 84 Software Tools of Australia  
Miscellaneous updates

-CATALOG.084 Contents of SIG/M volume 84  
released November 3, 1982

CRC .COM checksum program  
SIG/M .LIB submission form

| index  | name         | size | crc   | description            |
|--------|--------------|------|-------|------------------------|
| 084.01 | BYE72G .ASM  | 48K  | 30 F1 | updated communications |
| 084.02 | BYE72G .COM  | 3K   | 03 4B | programs with options  |
| 084.03 | CHAT19 .ASM  | 8K   | 17 62 | for international      |
| 084.04 | CHAT19 .COM  | 1K   | FE 3D | operations.            |
| 084.05 | ENTRBBS .BAS | 24K  | 03 3C | !                      |
| 084.06 | EXITRBBS.BAS | 7K   | D5 81 | !                      |
| 084.07 | FLIP4 .ASM   | 4K   | 20 8A | !                      |
| 084.08 | FLIP4 .COM   | 1K   | A8 D8 | !                      |
| 084.09 | MBOOT3-A.ASM | 7K   | 0B 7D | !                      |
| 084.10 | MBOOT3-A.COM | 1K   | 9D 60 | /                      |
| 084.11 | MINIRBBS.BAS | 30K  | 77 B3 | /                      |
| 084.12 | RBBSUTIL.BAS | 13K  | 64 B4 | /                      |
| 084.13 | XSTAM+ .ASM  | 28K  | 4D 83 | /                      |
| 084.14 | XSTAM+ .COM  | 10K  | 9B F1 | /                      |
| 084.15 | FIND+ .ASM   | 13K  | 0C 40 | Updated FIND           |
| 084.16 | FIND+ .COM   | 1K   | 2A 61 | /                      |
| 084.17 | HELP14 .ASM  | 15K  | 3E 5C | Updated HELP           |
| 084.18 | HELP14 .COM  | 2K   | 65 48 | /                      |
| 084.19 | TAG3 .ASM    | 8K   | BD 48 | updated TAG            |
| 084.20 | TAG3 .COM    | 1K   | 47 92 | /                      |

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Sig/M volume 85 Pascal Z Users Group  
extracts from volume 19

-CATALOG.085 contents of Sig/M volume 85  
released November 3, 1982

CRC .COM checksum program  
ABSTRACT.085 comments from Pascal Z UG

| index  | name         | size | crc   | description                |
|--------|--------------|------|-------|----------------------------|
| 085.01 | TREE5 .COM   | 14K  | 82 01 | Updated binary tree        |
| 085.02 | TREE5 .DOC   | 4K   | 31 81 | with disc storage,         |
| 085.03 | TREE5 .PAS   | 7K   | F5 E6 | deletion and               |
| 085.04 | DISC .PAS    | 3K   | 10 8C | relinking                  |
| 085.05 | ORDER .PAS   | 1K   | DD 13 | /                          |
| 085.06 | DELETE .PAS  | 2K   | 4E CC | /                          |
| 085.07 | MENU .PAS    | 3K   | 4D 1D | /                          |
| 085.08 | DATA .DAT    | 2K   | BF 13 | /                          |
| 085.09 | SIGNS .COM   | 10K  | 3F 29 | prints a string of         |
| 085.10 | SIGNS .DOC   | 3K   | 24 E5 | 7 letters in large         |
| 085.11 | SIGNS .PAS   | 4K   | 58 B6 | type                       |
| 085.12 | FONT .DAT    | 1K   | E8 92 | /                          |
| 085.13 | RUNOFF .COM  | 21K  | C3 D7 | Text formatting            |
| 085.14 | RUNOFF .DOC  | 27K  | 4D E4 | program patterned          |
| 085.15 | RUNOFF .PAS  | 27K  | 15 A7 | after DEC PDP-11           |
| 085.16 | RUNOFF .SUB  | 1K   | 13 9C | program                    |
| 085.17 | PASDIR .COM  | 6K   | F7 39 | reads directory            |
| 085.18 | PASDIR .PAS  | 2K   | AF 80 | /                          |
| 085.19 | REMOVECC.COM | 10K  | 73 A6 | remove or change high      |
| 085.20 | REMOVECC.PAS | 10K  | C8 FD | bits or control chars      |
| 085.21 | TRIMCOLS.COM | 11K  | 3E 2D | trims right column or      |
| 085.22 | TRIMCOLS.PAS | 8K   | 16 12 | trailing blanks            |
| 085.23 | SUPERSUB.COM | 3K   | F3 D0 | updated SUBMIT             |
| 085.24 | SUPERSUB.ASM | 20K  | 70 FE | /                          |
| 085.25 | XSUB .COM    | 8K   | 49 79 | executes external programs |
| 085.26 | XSUB .PAS    | 6K   | 96 0E | via SUBMIT program         |
| 085.27 | PAUSE .COM   | 1K   | 7E 93 | stops program, prints note |
| 085.28 | PAUSE .SRC   | 1K   | F1 9C | on console, awaits input   |

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Sig/M volume 86 TRS-80 Model I CP/M programs  
for use with Omikron Mapper systems  
(for additional DOC files, see  
Sig/M catalog)

-CATALOG.086 Contents of SIG/M volume 86  
released November 15, 1982

SIG/M .LIB donation form  
CRC .COM checksum program

| index  | name         | size | crc       | description                   |
|--------|--------------|------|-----------|-------------------------------|
| 086.01 | /            | .COM | 3K 46 45  | FAST2 program to speed        |
| 086.02 | FAST2MAN.DOC | 21K  | 87 0C     | CP/M 2.2 programs             |
| 086.03 | DOS          | .COM | 1K FA AD  | State of system               |
| 086.04 | DU           | .COM | 6K 6B 38  | Superzap, etc. for CP/M       |
| 086.05 | DU-V77       | .DOC | 7K 9C A8  | /                             |
| 086.06 | FIND         | .COM | 1K 2A 61  | Locate ASCII string           |
| 086.07 | FINDBAD      | .COM | 2K 03 43  | Finds bad 5" & 8" disks       |
| 086.08 | FMAP         | .COM | 1K 1A 2C  | Location of files             |
| 086.09 | LCOPY        | .COM | 2K 5E 94  | Fast copy 8" disks            |
| 086.10 | MCOPY        | .COM | 2K 68 70  | Fast copy 5" disks            |
| 086.11 | MEMRS        | .COM | 2K 32 4F  | Memory test                   |
| 086.12 | MFT          | .COM | 2K 9F E0  | Multiple file trans - 1 drive |
| 086.13 | MODEM        | .COM | 8K 88 76  | Modem 7 for RS RS232 or       |
| 086.14 | MODEM7       | .DOC | 16K B0 BD | Lynx modem                    |
| 086.15 | SD           | .COM | 2K AC C7  | Super Directory               |
| 086.16 | SIZE         | .COM | 1K F9 E0  | File size                     |
| 086.17 | SORTDIR      | .COM | 2K 85 B1  | Alphabetizes directory        |
| 086.18 | SPEED        | .COM | 1K BE 57  | Sets Holmes Sprinter          |
| 086.19 | SQ           | .COM | 14K 1E 8B | Squeeze and unsqueeze         |
| 086.20 | USQ          | .COM | 10K 56 1F | files                         |
| 086.23 | ZCPR-10      | .DOC | 45K 9D E1 | Significantly improves        |
| 086.24 | ZCPR-OM      | .ASM | 48K 76 1E | CP/M 2.2. A "must" program    |
| 086.25 | ZCPR-OM      | .HEX | 6K 08 E2  | for any system.               |
| 086.26 | SURVEY       | .COM | 2K 66 CE  | Status of system              |
| 086.27 | TIME         | .COM | 1K 56 C4  | Time/date - Alpha timedata    |
| 086.28 | TYPER        | .COM | 1K EC 4D  | Use TRS-80 as typewriter      |
| 086.29 | UNERA        | .COM | 1K 79 FE  | Wildcard unerase              |
| 086.30 | WASH         | .COM | 3K C5 29  | Handy disk utility            |
| 086.31 | WC           | .COM | 7K BA 45  | Counts words in file          |
| 086.32 | XTYPE        | .COM | 9K 3A 1B  | Types squeezed files too      |

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Sig/M volume 87 "THE FED (TM)" Econometric Model  
by Decision Sciences and Software  
Irvine, California

Software Tools of Australia  
Miscellaneous programs

-CATALOG.087 Contents of SIG/M volume 87  
released November 18, 1982

CRC .COM checksum program  
SIG/M .LIB submission form

| index  | name         | size | crc   | description                  |
|--------|--------------|------|-------|------------------------------|
| 087.01 | THEFED .TXT  | 3K   | 1C 1A | CBASIC version of model      |
| 087.02 | THEFED .INT  | 19K  | 3D 9D | used by St. Louis Federal    |
| 087.03 | ECON1 .DAT   | 5K   | 76 8B | Reserve District to test     |
| 087.04 | FORCAST2.DAT | 1K   | 35 D7 | alternate money supply       |
| 087.05 | PRNTECON.INT | 3K   | 5C 44 | policies.                    |
| 087.06 | PRNTFORC.INT | 2K   | 58 E0 | /                            |
| 087.07 | BDSCAT .AQL  | 33K  | DC 89 | BDSC catalog                 |
| 087.08 | DISPLAY+.ASM | 16K  | 53 17 | types file without wildcards |
| 087.09 | DISPLAY+.COM | 3K   | C5 39 | /                            |
| 087.10 | TYP+ .ASM    | 13K  | 9E 74 | types file with wildcards    |
| 087.11 | TYP+ .COM    | 3K   | 66 03 | /                            |
| 087.12 | HELP .HLP    | 7K   | 5A 0B | miscellaneous help programs  |
| 087.13 | MESSAGES.HLP | 6K   | 25 1E | for bulletin boards          |
| 087.14 | MODEM .HLP   | 18K  | 08 66 | /                            |
| 087.15 | QUICK .HLP   | 1K   | CB 9A | /                            |
| 087.16 | RATFOR .HLP  | 19K  | DE DE | /                            |
| 087.17 | SOFTWARE.HLP | 11K  | 96 C1 | /                            |
| 087.18 | THIS-SYS.HLP | 22K  | 88 11 | /                            |
| 087.19 | NEWCOM .     | 2K   | FD 49 | /                            |

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Sig/M volume 88 SYSLIB (SYStem LIBrary)  
An Integrated Library of Assembly Language  
Utility Subroutines for use with the  
Microsoft M80 Assembler  
by Richard Conn

Volume 1 - Documentation

-CATALOG.088 Contents of SIG/M volume 88  
released December 18, 1982

| index  | name        | size | crc   | description                      |
|--------|-------------|------|-------|----------------------------------|
| 088.01 | SYSLIBI .WS | 10K  | 75 B6 | Introduction to SYSLIB           |
| 088.02 | SYSLIBUG.WS | 124K | 9D 7B | SYSLIB User's Guide              |
| 088.03 | SYSLIB .WS  | 103K | 27 78 | SYSLIB Reference Manual (part I) |

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Sig/M volume 89 SYSLIB (SYStem LIBrary)  
 An Integrated Library of Assembly Language  
 Utility Subroutines for use with the  
 Microsoft M80 Assembler  
 by Richard Conn

Volume 2 - Balance of Documentation  
 HLP Files  
 REL file  
 Library files

-CATALOG.089 Contents of SIG/M volume 89  
 released December 18, 1982

CRC .COM Checksum program  
 HELP .COM Help program

| index  | name         | size | crc   | description                      |
|--------|--------------|------|-------|----------------------------------|
| 089.01 | SYSLIBHD.WS  | 15K  | 6E AA | Ref. manual table of contents    |
| 089.02 | SYSLIBID.WS  | 3K   | 00 25 | Reference manual index           |
| 089.03 | SYSLIBR .WS  | 3K   | 27 D2 | Reference manual index           |
| 089.04 | SYSLIBS .WS  | 42K  | DB 19 | SYSLIB Reference manual (part 2) |
| 089.05 | SYSLIB .HLP  | 15K  | 1F 92 | SYSLIB Help file                 |
| 089.06 | SYSLIB1 .HLP | 14K  | 65 47 | !                                |
| 089.07 | SYSLIB2 .HLP | 4K   | DD 5E | !                                |
| 089.08 | SYSLIB3 .HLP | 8K   | BF 68 | !                                |
| 089.09 | SYSLIB4 .HLP | 6K   | 4D 9C | !                                |
| 089.10 | SYSLIB5 .HLP | 6K   | C6 6F | !                                |
| 089.11 | SYSLIB6 .HLP | 4K   | 1A AE | /                                |
| 089.12 | SYSLIB7 .HLP | 6K   | 9C 70 | /                                |
| 089.13 | SYSLIB8 .HLP | 6K   | 6B 53 | /                                |
| 089.14 | SYSLIB9 .HLP | 7K   | 0B EF | /                                |
| 089.15 | SYSLIBA .HLP | 7K   | E9 66 | /                                |
| 089.16 | SYSLIBB .HLP | 5K   | 21 39 | /                                |
| 089.17 | SYSLIBC .HLP | 8K   | 1A 21 | /                                |
| 089.18 | SYSLIB .REL  | 13K  | 4D 42 | SYSLIB REL file                  |
| 089.19 | S0FILEIO.MAC | 2K   | 6A A7 | SYSLIB Source file               |
| 089.20 | S1FILEIO.MAC | 2K   | 29 E9 | !                                |
| 089.21 | S2FILEIO.MAC | 2K   | EE 8F | !                                |
| 089.22 | S3FILEIO.MAC | 2K   | B0 F6 | !                                |
| 089.23 | SBBLINE .MAC | 3K   | 1D 79 | !                                |
| 089.24 | SBDOS .MAC   | 1K   | D8 33 | !                                |
| 089.25 | SBIOS .MAC   | 3K   | 24 1E | !                                |
| 089.26 | SBLINE .MAC  | 3K   | 18 71 | !                                |
| 089.27 | SCAPS .MAC   | 1K   | 22 F3 | !                                |
| 089.28 | SCAPSTR .MAC | 1K   | FC EA | !                                |
| 089.29 | SCATH .MAC   | 1K   | A6 65 | !                                |
| 089.30 | SCCOUT .MAC  | 2K   | A4 88 | !                                |
| 089.31 | SCIN .MAC    | 1K   | 47 D4 | !                                |
| 089.32 | SCLOUT .MAC  | 2K   | 2A 8B | !                                |
| 089.33 | SCODEND .MAC | 1K   | 7A DB | !                                |
| 089.34 | SCOMP .MAC   | 2K   | C6 19 | !                                |
| 089.35 | SCOMPHD .MAC | 1K   | 67 BE | /                                |
| 089.36 | SCONDIN .MAC | 1K   | 66 66 | /                                |
| 089.37 | SCOUT .MAC   | 1K   | 0A 76 | /                                |
| 089.38 | SCPOUT .MAC  | 2K   | F3 B0 | /                                |
| 089.39 | SCRC .MAC    | 4K   | 92 EA | /                                |
| 089.40 | SCRC1 .MAC   | 4K   | 18 E3 | /                                |
| 089.41 | SCRLF .MAC   | 1K   | 6C D3 | /                                |

089.42 SCST .MAC 1K B6 01 /

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Sig/M volume 90 SYSLIB (SYStem LIBrary)  
 An Integrated Library of Assembly Language  
 Utility Subroutines for use with the  
 Microsoft M80 Assembler  
 by Richard Conn

Volume 3 - Balance of Library files

-CATALOG.090 Contents of SIG/M volume 90  
 released December 18, 1982

| index  | name          | size | crc   | description         |
|--------|---------------|------|-------|---------------------|
| 090.01 | SDIR .MAC     | 34K  | 3B BF | SYSLIB source files |
| 090.02 | SEN .MAC      | 1K   | F9 CF |                     |
| 090.03 | SEVAL .MAC    | 4K   | 13 D5 |                     |
| 090.04 | SEVAL1 .MAC   | 2K   | 3A EC |                     |
| 090.05 | SEVAL2 .MAC   | 2K   | 1B DC |                     |
| 090.06 | SEVAL3 .MAC   | 2K   | BD 45 |                     |
| 090.07 | SEVAL4 .MAC   | 2K   | 10 A5 |                     |
| 090.08 | SFCLOS .MAC   | 1K   | 71 0C |                     |
| 090.09 | SFDEL .MAC    | 1K   | BB 5B |                     |
| 090.10 | SFEXIST .MAC  | 1K   | 2C 94 |                     |
| 090.11 | SFILEIO .MAC  | 9K   | 4F 9C |                     |
| 090.12 | SFILL .MAC    | 2K   | A5 47 |                     |
| 090.13 | SFMAKE .MAC   | 1K   | 15 FA |                     |
| 090.14 | SFNAME .MAC   | 5K   | 87 C9 |                     |
| 090.15 | SFOPEN .MAC   | 2K   | 6B 0B |                     |
| 090.16 | SFREAD .MAC   | 1K   | 07 DF |                     |
| 090.17 | SFRENAME .MAC | 2K   | 6A 5B |                     |
| 090.18 | SFWRITE .MAC  | 1K   | CF E0 |                     |
| 090.19 | SHDR .MAC     | 1K   | EF FD |                     |
| 090.20 | SINITFCB .MAC | 1K   | FF E8 |                     |
| 090.21 | SINLINE .MAC  | 6K   | 41 03 |                     |
| 090.22 | SINSFORM .MAC | 3K   | C7 37 |                     |
| 090.23 | SINSTR .MAC   | 2K   | 30 77 |                     |
| 090.24 | SLA2HC .MAC   | 1K   | 66 76 |                     |
| 090.25 | SLADC .MAC    | 2K   | 35 10 |                     |
| 090.26 | SLCRLF .MAC   | 1K   | A9 8A |                     |
| 090.27 | SLHL4HC .MAC  | 1K   | 5C 76 |                     |
| 090.28 | SLHL5DC .MAC  | 2K   | A0 E6 |                     |
| 090.29 | SLOUT .MAC    | 1K   | 40 84 |                     |
| 090.30 | SLPRINT .MAC  | 1K   | 67 D0 |                     |
| 090.31 | SLPSTR .MAC   | 2K   | 65 D7 |                     |
| 090.32 | SMA2HC .MAC   | 1K   | 0D C7 |                     |
| 090.33 | SMADC .MAC    | 2K   | 01 6F |                     |
| 090.34 | SMATH .MAC    | 5K   | 51 00 |                     |
| 090.35 | SMHL4HC .MAC  | 1K   | A1 A0 |                     |
| 090.36 | SMHL5DC .MAC  | 3K   | F0 F5 |                     |
| 090.37 | SMOVE .MAC    | 3K   | 67 FF |                     |
| 090.38 | SPA2HC .MAC   | 1K   | 0C F8 |                     |
| 090.39 | SPADC .MAC    | 2K   | E3 07 |                     |
| 090.40 | SPAUSE .MAC   | 3K   | A2 B8 |                     |
| 090.41 | SPHL4HC .MAC  | 1K   | 25 C5 |                     |
| 090.42 | SPHL5DC .MAC  | 2K   | B8 CE |                     |
| 090.43 | SPOUT .MAC    | 1K   | 91 5C |                     |
| 090.44 | SPRINT .MAC   | 1K   | A2 A3 |                     |
| 090.45 | SPSTR .MAC    | 2K   | A7 FD |                     |
| 090.46 | SRAND .MAC    | 2K   | 47 6E |                     |

|        |          |      |     |    |    |
|--------|----------|------|-----|----|----|
| 090.47 | SRIN     | .MAC | 1K  | 18 | 44 |
| 090.48 | SSCANNER | .MAC | 2K  | C2 | D3 |
| 090.49 | SSORT    | .MAC | 14K | 56 | 54 |
| 090.50 | SUD      | .MAC | 2K  | B6 | 32 |
| 090.51 | SVERSION | .MAC | 1K  | 70 | E0 |
| 090.52 | SYSTEST  | .MAC | 4K  | C9 | 97 |
| 090.53 | SYSTEST1 | .MAC | 3K  | 5D | 8C |
| 090.54 | SYSTEST2 | .MAC | 3K  | 93 | 68 |
| 090.55 | SYSTEST3 | .MAC | 4K  | 92 | EA |
| 090.56 | SYSTEST4 | .MAC | 6K  | 02 | CE |
| 090.57 | SYSTEST5 | .MAC | 2K  | 2D | AF |
| 090.58 | SYSTEST6 | .MAC | 5K  | A9 | F5 |
| 090.59 | SZCPR    | .MAC | 7K  | 96 | 66 |
| 090.60 | SZFNAME  | .MAC | 16K | A1 | 1B |
| 090.61 | SZGPINS  | .MAC | 3K  | A5 | 31 |

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## Sig/M volume 91 Utility Programs

-CATALOG.091 Contents of SIG/M volume 91  
released December 18, 1982

ABS .091 disk documentation  
CRC .COM checksum program  
SIG/M .LIB submission form

| index  | name         | size | crc   | description                   |
|--------|--------------|------|-------|-------------------------------|
| 091.01 | DUTIL .ASM   | 64K  | 6E EC | Revision of DU (Disk utility) |
| 091.02 | DUTIL .COM   | 9K   | 0B CA | with extended features        |
| 091.03 | DASM .COM    | 10K  | 5E B8 | Disassembles Zilog Z80 or TDL |
| 091.04 | DASM .MAC    | 74K  | E3 80 | mnemonics; based on RESOURCE; |
| 091.05 | DASMTDL .MAC | 13K  | 9B 8F | built in documentation        |
| 091.06 | DASMZLG .MAC | 17K  | 44 0C | /                             |
| 091.07 | XLATE2 .COM  | 5K   | 59 AB | Translates Intel 8080 source  |
| 091.08 | XLATE2 .MAC  | 36K  | 3F 0B | code to Zilog Z80 code        |

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Sig/M volume 92 68000 Cross-Assembler, RBBS, Little Ada

-CATALOG.092 Contents of SIG/M volume 92  
released January 14, 1983

CRC .COM checksum program  
SIG/M .LIB submission form

| index  | name         | size | crc   | description                  |
|--------|--------------|------|-------|------------------------------|
| 092.01 | A68K .COM    | 41K  | 1B BC | 68000 Cross Assembler        |
| 092.02 | A68K .DOC    | 9K   | 8C 72 | /                            |
| 092.03 | A68K .DON    | 3K   | E3 AC | /                            |
| 092.04 | DATE .COM    | 8K   | C0 B6 | /                            |
| 092.05 | DATE .DOC    | 1K   | EA 29 | /                            |
| 092.06 | T5 .ASM      | 1K   | DA 54 | /                            |
| 092.07 | T5 .HEX      | 1K   | D9 BA | /                            |
| 092.08 | T5 .PRN      | 3K   | 21 50 | /                            |
| 092.09 | RBBS-USE.DOC | 10K  | F5 DE | Bulletin Board Program       |
| 092.10 | RBBS31 .ASC  | 27K  | 8B 35 | /                            |
| 092.11 | RBBS31A .DOC | 9K   | 9B 4A | /                            |
| 092.12 | RBSUTL31.BAS | 10K  | A4 1F | /                            |
| 092.13 | COMPILER.L01 | 9K   | D6 B8 | Little Ada Compiler requires |
| 092.14 | LITL-ADA.ASM | 26K  | 10 30 | adaptation to run on other   |
| 092.15 | LITL-ADA.DOC | 1K   | D4 C8 | than a Polymorphic system    |
| 092.16 | LITL-ADA.PRN | 45K  | F6 CB | /                            |

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Sig/M volume 93 MODEM update

-CATALOG.093 Contents of SIG/M volume 93  
released January 15, 1983

CRC .COM checksum program  
SIG/M .LIB submission form

| index  | name         | size | crc   | description               |
|--------|--------------|------|-------|---------------------------|
| 093.01 | MODEM798.ASM | 88K  | D5 C0 | Modem program update      |
| 093.02 | MODEM798.HIS | 20K  | AB 23 | /                         |
| 093.03 | MODEM798.INF | 4K   | 46 0A | /                         |
| 093.04 | MODEM797.LIB | 19K  | E0 BB | /                         |
| 093.05 | MODEM798.OBJ | 16K  | 6D 8F | /                         |
| 093.06 | MODEM798.SET | 6K   | 75 0A | /                         |
| 093.07 | TRSMODEM.COM | 16K  | 79 64 | /                         |
| 093.08 | MCNFG798.ASM | 13K  | EB 11 | Modem Configure - general |
| 093.09 | MCOSB798.ASM | 9K   | 16 0E | " " Osborne O-1           |
| 093.10 | MCQXS798.ASM | 18K  | 71 D7 | " " Epson QX-10           |
| 093.11 | MNUMB798.ASM | 2K   | 3D A0 | Phone number file         |
| 093.12 | CHGLIB .ASM  | 13K  | EF 4C | Changes Modem phone       |
| 093.13 | CHGLIB .COM  | 2K   | C6 62 | library                   |
| 093.14 | CHGLIB .DOC  | 4K   | 41 FB | /                         |

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Sig/M volume 94 Pascal Z Users Group  
extracts from volume 20

-CATALOG.094 contents of Sig/M volume 94  
released February 3, 1983

CRC .COM checksum program  
ABSTRACT.094 comments from Pascal Z UG

| index  | name         | size | crc   | description                        |
|--------|--------------|------|-------|------------------------------------|
| 094.01 | DIRSCAN .COM | 5K   | A1 2B | Scans directory                    |
| 094.02 | DIRSCAN .PAS | 3K   | 20 D2 | ./                                 |
| 094.03 | XDIRSCAN.SRC | 2K   | 46 4D | /                                  |
| 094.04 | MEMAVAIL.SRC | 2K   | 53 63 | Displays available memory          |
| 094.05 | INDEXER .COM | 17K  | 82 E4 | Creates an index for a book        |
| 094.06 | INDEXER .DOC | 13K  | 55 27 | or any document automatically.     |
| 094.07 | INDEXER .PAS | 26K  | 28 D5 | Includes sample program.           |
| 094.08 | INDEXER .SUB | 1K   | C5 27 | /                                  |
| 094.09 | PZKEY .INX   | 4K   | DE 29 | /                                  |
| 094.10 | PZKEY .TRE   | 4K   | D2 5C | /                                  |
| 094.11 | EPSON .COM   | 8K   | 02 FF | Menu file to send code to Epson MX |
| 094.12 | EPSON .PAS   | 3K   | 76 80 | printers to set type sizes.        |
| 094.13 | OKI .COM     | 8K   | 96 E5 | Menu file to send code to Okidata  |
| 094.14 | OKI .PAS     | 3K   | CC E8 | 82/83.                             |
| 094.15 | TERMS .DOC   | 17K  | 68 40 | Creates dictionary of words and/or |
| 094.16 | TERMS .PAS   | 6K   | BA 99 | phrases.                           |
| 094.17 | TINIT .PAS   | 6K   | 98 A5 | /                                  |
| 094.18 | TPRINT .PAS  | 7K   | 67 A9 | /                                  |
| 094.19 | TER .PAS     | 32K  | DE E1 | /                                  |
| 094.20 | SUB .COM     | 13K  | A5 C4 | Menu file to run the major CP/M    |
| 094.21 | SUB .PAS     | 8K   | AF 7A | command files, such as SUBMIT, PIP |
| 094.22 | HOLD .COM    | 6K   | 35 58 | STAT, SYSGEN and FORMAT.           |
| 094.23 | HOLD .PAS    | 1K   | 33 52 | /                                  |

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Sig/M volume 95 Pascal Z Users Group  
extracts from volume 21

-CATALOG.095 contents of Sig/M volume 95  
released February 3, 1983

CRC .COM checksum program  
ABSTRACT.095 comments from Pascal Z UG

| index  | name         | size | crc   | description                 |
|--------|--------------|------|-------|-----------------------------|
| 095.01 | CROWE .Z80   | 142K | 24 A6 | Micro-C Users Group Crowe   |
| 095.02 | CROWE2 .COM  | 12K  | 1E AC | Z-80 assembler              |
| 095.03 | CROWELET.TXT | 4K   | 23 BA | /                           |
| 095.04 | CROWLINK.Z80 | 8K   | 34 A7 | /                           |
| 095.05 | EPROM .ASM   | 8K   | E9 7E | Help for present and future |
| 095.06 | EPROM .DOC   | 2K   | 7C DD | prom burners.               |
| 095.07 | REZ7/31 .ASM | 33K  | 15 73 | Updated TDL disassembler    |
| 095.08 | REZ7/31 .DOC | 26K  | 34 A2 | /                           |

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Sig/M volume 96 CP/M86 Utility Programs

-CATALOG.096 contents of Sig/M volume 96  
released February 3, 1983

CRC .COM checksum program

| index  | name         | size | crc   | description                |
|--------|--------------|------|-------|----------------------------|
| 096.01 | CLOCK .A86   | 12K  | 6B 76 | Tests Compupro clock board |
| 096.02 | CRCK-51 .A86 | 18K  | 7E 82 | Checksum program           |
| 096.03 | D .A86       | 18K  | 40 24 | Directory program          |
| 096.04 | ERQ .A86     | 3K   | 3E C1 | Selective file erase       |
| 096.05 | FILE-EXT.A86 | 8K   | 14 D5 | Directpry program          |
| 096.06 | FINDBAD .A86 | 33K  | 56 7A | Checks disks               |
| 096.07 | INUSE .A86   | 11K  | B5 5C | "Hold" that computer!      |
| 096.08 | MUCHTEXT.A86 | 5K   | 34 A9 | Word count                 |
| 096.09 | PAGE .A86    | 7K   | 2A 07 | Pages output               |
| 096.10 | PRINT .A86   | 13K  | 4E A4 | Output to printer          |
| 096.11 | SD .A86      | 15K  | 13 07 | Super directory            |
| 096.12 | XDIR .A86    | 40K  | 53 C9 | Detailed directory list    |
| 096.13 | XDIR-A86.DOC | 7K   | DA 5B | /                          |

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Sig/M volume 97 Pascal Z Users Group volume 22

-CATALOG.097 contents of Sig/M volume 97  
released February 3, 1983

CRC .COM checksum program  
ABSTRACT.097 comments from Pascal Z UG

| index  | name         | size | crc   | description                    |
|--------|--------------|------|-------|--------------------------------|
| 097.01 | CCT .COM     | 2K   | 0D DC | Updates COMBINE. Joins many    |
| 097.02 | CCT .ASM     | 26K  | AC 65 | small files into one big one   |
| 097.03 | CCT .HEX     | 5K   | 08 E6 | /                              |
| 097.04 | CROSS .COM   | 30K  | 92 48 | Indents, cross references      |
| 097.05 | CROSS .DOC   | 5K   | 41 2F | and annotates Pascal program.  |
| 097.06 | CROSS .PAS   | 20K  | ED 47 | /                              |
| 097.07 | CROSS .SUB   | 1K   | 69 1F | /                              |
| 097.08 | BLOCK .PAS   | 15K  | 68 04 | /                              |
| 097.09 | INIT .PAS    | 6K   | 76 EB | /                              |
| 097.10 | INSYM .PAS   | 16K  | 3B CD | /                              |
| 097.11 | SIZE .SRC    | 1K   | 03 99 | /                              |
| 097.12 | PURGE .COM   | 1K   | 6F C0 | Erases all files on H19 except |
| 097.13 | PURGE .DOC   | 5K   | B0 D1 | COM or PAS (or other types you |
| 097.14 | PURGE .MAC   | 6K   | 82 62 | select)                        |
| 097.15 | M80LIB00.MAC | 19K  | F3 7C | /                              |
| 097.16 | MACRO .LIB   | 18K  | C9 8E | /                              |
| 097.17 | FTOSTR .TXT  | 6K   | AB 3E | Floating point package and     |
| 097.18 | MATHPACK.COM | 31K  | 1E 81 | demo                           |
| 097.19 | MATHPACK.PAS | 20K  | A1 F3 | /                              |

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Sig/M Volume 98      ZCPR2      - Z80 Command Processor Replacement, Version2  
                          SYSLIB 2.3 - An integrated library of Assembly  
                                          Language Utility Subroutines

by Richard Conn

VOL 1 of 10      ZCPR2 and SYSLIB

-CATALOG.098      contents of Sig/M volume 98  
                          released February 14, 1983

CRC      .COM      checksum program  
   ZCPR2    .IDX      index of this ten volume series  
   SIG/M    .LIB      donation form

| index  | name         | size | crc   | description |
|--------|--------------|------|-------|-------------|
| 098.01 | SYSIO .ASM   | 29K  | 91 11 | ZCPR2       |
| 098.02 | ZCPR2 .ASM   | 56K  | BD 1A | /           |
| 098.03 | ZCPRHDR .LIB | 15K  | E6 29 | /           |
| 098.04 | README .TXT  | 3K   | 4A 55 | SYSLIB 2.3  |
| 098.05 | SCLINE .MAC  | 2K   | 58 3E | !           |
| 098.06 | SCRC .MAC    | 3K   | 96 49 | !           |
| 098.07 | SCRC1 .MAC   | 3K   | 7A 5D | !           |
| 098.08 | SCRC2 .MAC   | 3K   | E9 29 | !           |
| 098.09 | SFNAME .MAC  | 5K   | EB 46 | !           |
| 098.10 | SMHL4HC .MAC | 1K   | 9C 15 | !           |
| 098.11 | SVERSION.MAC | 1K   | 6C A3 | !           |
| 098.12 | SYSLIB .HLP  | 14K  | 2A E5 | !           |
| 098.13 | SYSLIB .REL  | 14K  | 1A 33 | !           |
| 098.14 | SYSLIB8 .HLP | 7K   | A2 A5 | !           |
| 098.15 | SYSLIB9 .HLP | 8K   | 60 75 | /           |
| 098.16 | SYSLIBC .HLP | 10K  | 4C E8 | /           |
| 098.16 | SZCPR .MAC   | 7K   | 3C 74 | /           |
| 098.17 | SZFNAME .MAC | 18K  | 9D A0 | /           |
| 098.18 | SZGPINS .MAC | 4K   | 18 07 | /           |

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Sig/M Volume 99      ZCPR2      - Z80 Command Processor Replacement, Version2

by Richard Conn

VOL 2 of 10      ZCPR2

-CATALOG.099      contents of Sig/M volume 99  
released February 14, 1983

CRC      .COM      checksum program  
ZCPR2      .IDX      index of this ten volume series  
SIG/M      .LIB      donation form

| index  | name  |      | size | crc   | description |
|--------|-------|------|------|-------|-------------|
| 099.01 | DU2   | .ASM | 72K  | 19 DA |             |
| 099.02 | HELP2 | .ASM | 33K  | 16 19 |             |
| 099.03 | LRUNZ | .ASM | 26K  | B8 6F |             |
| 099.04 | SUB2  | .ASM | 31K  | 57 FB |             |
| 099.05 | ZEX   | .ASM | 45K  | 09 11 |             |
| 099.06 | ZEX   | .ZEX | 5K   | 53 28 |             |

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Sig/M Volume 100 ZCPR2 - Z80 Command Processor Replacement, Version2

by Richard Conn

VOL 3 of 10 ZCPR2

-CATALOG.100 contents of Sig/M volume 100  
released February 14, 1983

CRC .COM checksum program  
ZCPR2 .IDX index of this ten volume series  
SIG/M .LIB donation form

| index  | name         | size | crc   | description |
|--------|--------------|------|-------|-------------|
| 100.01 | CCPLOC .MAC  | 5K   | FA DA |             |
| 100.02 | CD .MAC      | 9K   | F5 5D |             |
| 100.03 | COMPARE .MAC | 13K  | 2F 8A |             |
| 100.04 | CRC .MAC     | 20K  | 4C 09 |             |
| 100.05 | DEVICE .MAC  | 13K  | 92 0A |             |
| 100.06 | DIFF .MAC    | 17K  | 74 C2 |             |
| 100.07 | ECHO .MAC    | 6K   | 99 64 |             |
| 100.08 | ERASE .MAC   | 15K  | 25 6B |             |
| 100.09 | GENINS .MAC  | 43K  | B2 1B |             |
| 100.10 | IOLOADER.MAC | 7K   | 4F 23 |             |
| 100.11 | LD .MAC      | 10K  | 6C D4 |             |
| 100.12 | LDIRZ .MAC   | 12K  | FF 1B |             |
| 100.13 | MCHECK .MAC  | 14K  | B1 12 |             |
| 100.14 | MCOPY .MAC   | 37K  | BA 14 |             |

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Sig/M Volume 101 ZCPR2 - Z80 Command Processor Replacement, Version2

by Richard Conn

VOL 4 of 10 ZCPR2

-CATALOG.101 contents of Sig/M volume 101  
released February 14, 1983

CRC .COM checksum program  
ZCPR2 .IDX index of this ten volume series  
SIG/M .LIB donation form

| index  | name         | size | crc   | description |
|--------|--------------|------|-------|-------------|
| 101.01 | MENU .CPR    | 1K   | 32 DE |             |
| 101.02 | MENU .MAC    | 24K  | 0D BE |             |
| 101.03 | MKDIR .MAC   | 21K  | BE 0A |             |
| 101.04 | PATH .MAC    | 14K  | 9F 91 |             |
| 101.05 | PROTECT .MAC | 18K  | EB 24 |             |
| 101.06 | PWD .MAC     | 12K  | 1A 64 |             |
| 101.07 | ZWCOZV .MAC  | 7K   | DB 87 |             |
| 101.08 | RENAME .MAC  | 18K  | 68 15 |             |
| 101.09 | SINSFORM.MAC | 3K   | 3B E7 |             |
| 101.10 | STARTUP .MAC | 10K  | D6 3F |             |
| 101.11 | TEMPLATE.MAC | 11K  | C5 DA |             |
| 101.12 | TINIT .MAC   | 13K  | 9F 1E |             |
| 101.13 | WHEEL .MAC   | 6K   | 32 B6 |             |
| 101.14 | XDIR3 .MAC   | 39K  | 69 BD |             |

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Sig/M Volume 102 ZCPR2 - Z80 Command Processor Replacement, Version2

by Richard Conn

VOL 5 of 10 ZCPR2

-CATALOG.102 contents of Sig/M volume 102  
released February 14, 1983

| index  | name         | size | crc   | description     |
|--------|--------------|------|-------|-----------------|
| 102.01 | CCPLOC .COM  | 1K   | A0 7F |                 |
| 102.02 | CD .COM      | 4K   | CF FC |                 |
| 102.03 | COMPARE .COM | 5K   | 00 1D |                 |
| 102.04 | CONFIG .COM  | 19K  | 44 4F |                 |
| 102.05 | CRC .COM     | 8K   | BB 23 | (ZCPR2 VERSION) |
| 102.06 | DEVICE .COM  | 3K   | 76 53 |                 |
| 102.07 | DIFF .COM    | 6K   | E3 AF |                 |
| 102.08 | DU2 .COM     | 10K  | 30 22 |                 |
| 102.09 | ECHO .COM    | 1K   | C1 E9 |                 |
| 102.10 | ERASE .COM   | 7K   | 00 7B |                 |
| 102.11 | GENINS .COM  | 13K  | 97 4D |                 |
| 102.12 | HELP .COM    | 3K   | 34 47 |                 |
| 102.13 | IOLOADER.COM | 4K   | D3 C7 |                 |
| 102.14 | LD .COM      | 5K   | F2 FC |                 |
| 102.15 | LDIRZ .COM   | 6K   | 98 7F |                 |
| 102.16 | LRUNZ .COM   | 2K   | B2 4D |                 |
| 102.17 | MCHECK .COM  | 5K   | A1 1D |                 |
| 102.18 | MCOPY .COM   | 11K  | 5A 81 |                 |
| 102.19 | MENU .COM    | 2K   | DB E8 |                 |
| 102.20 | MKDIR .COM   | 8K   | 22 60 |                 |
| 102.21 | PATH .COM    | 5K   | ED 05 |                 |
| 102.22 | PROTECT .COM | 8K   | CB 21 |                 |
| 102.23 | PWD .COM     | 5K   | B6 32 |                 |
| 102.24 | RECORD .COM  | 2K   | 6E 42 |                 |
| 102.25 | RENAME .COM  | 8K   | 5A 09 |                 |
| 102.26 | STARTUP .COM | 4K   | 98 04 |                 |
| 102.27 | SUB .COM     | 3K   | 46 9D |                 |
| 102.28 | TINIT .COM   | 5K   | 60 62 |                 |
| 102.29 | WHEEL .COM   | 2K   | D5 A0 |                 |
| 102.30 | XDIR .COM    | 11K  | 1B E1 |                 |
| 102.31 | ZEX .COM     | 6K   | 08 3E |                 |
| 102.32 | TEMPLATE.MAC | 11K  | C5 DA |                 |
| 102.33 | CFILES .HLP  | 22K  | 10 97 |                 |
| 102.34 | COMPARE .HLP | 7K   | B3 F0 |                 |
| 102.35 | MCOPY .HLP   | 11K  | 96 9E |                 |
| 102.36 | ZCPR2 .HLP   | 6K   | 73 08 |                 |

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Sig/M Volume 103 ZCPR2 - Z80 Command Processor Replacement, Version2

by Richard Conn

VOL 6 of 10 ZCPR2

-CATALOG.103 contents of Sig/M volume 103  
released February 14, 1983

| index  | name  | size     | crc   | description |
|--------|-------|----------|-------|-------------|
| 102.01 | CPMTR | .HLP 24K | 63 7B |             |
| 103.02 | DU2   | .HLP 35K | 5F 7B |             |
| 103.03 | HELP  | .HLP 1K  | 15 97 |             |
| 103.04 | HELP2 | .HLP 22K | 2D E1 |             |
| 103.05 | IO    | .HLP 14K | D5 CA |             |
| 103.06 | LU    | .HLP 27K | 48 F2 |             |
| 103.07 | MENU  | .HLP 29K | 1C 39 |             |
| 103.08 | NDIRS | .HLP 35K | F8 19 |             |
| 103.09 | XDIR3 | .HLP 22K | 21 DA |             |
| 103.10 | Z2ALT | .HLP 22K | 25 85 |             |
| 103.11 | Z2RES | .HLP 7K  | FA D4 |             |

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Sig/M Volume 104 ZCPR2 - Z80 Command Processor Replacement, Version2

by Richard Conn

VOL 7 of 10 ZCPR2 DOCUMENTATION

-CATALOG.104 contents of Sig/M volume 104  
released February 14, 1983

CRC .COM checksum program  
ZCPR2 .IDX index of this ten volume series  
SIG/M .LIB donation form

| index  | name       | size | crc   | description |
|--------|------------|------|-------|-------------|
| 104.01 | Z2CON .WS  | 120K | EE E6 |             |
| 104.02 | Z2CON .WSH | 8K   | F2 C6 |             |
| 104.03 | Z2INS .WS  | 87K  | 19 B1 |             |
| 104.04 | Z2INS .WSH | 6K   | 35 3C |             |

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Sig/M Volume 105 ZCPR2 - Z80 Command Processor Replacement, Version2

by Richard Conn

VOL 8 of 10 ZCPR2 DOCUMENTATION

-CATALOG.105 contents of Sig/M volume 105  
released February 14, 1983

CRC .COM checksum program  
ZCPR2 .IDX index of this ten volume series  
SIG/M .LIB donation form

| index  | name      | size | crc   | description |
|--------|-----------|------|-------|-------------|
| 105.01 | Z2UG .WS  | 77K  | 9E 57 |             |
| 105.02 | Z2UG .WSH | 16K  | 8D B9 |             |
| 105.03 | Z2UG1 .WS | 72K  | F8 12 |             |
| 105.04 | Z2UG2 .WS | 56K  | 8D 1F |             |

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Sig/M Volume 106    ZCPR2        - Z80 Command Processor Replacement, Version2  
                      SYSLIB 2.3 - An integrated library of Assembly  
                                      Language Utility Subroutines

by Richard Conn

VOL 9 of 10    ZCPR2 and SYSLIB DOCUMENTATION

-CATALOG.106    contents of Sig/M volume 106  
                      released February 14, 1983

CRC        .COM    checksum program  
ZCPR2      .IDX    index of this ten volume series  
SIG/M      .LIB    donation form

| index  | name       | size | crc   | description |
|--------|------------|------|-------|-------------|
| 106.01 | SYSLIB .WS | 107K | 50 E7 |             |
| 106.02 | Z2UG3 .WS  | 50K  | CC 68 |             |

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Sig/M Volume 107      SYSLIB 2.3 - An integrated library of Assembly  
Language Utility Subroutines

by Richard Conn

VOL 10 of 10      SYSLIB DOCUMENTATION

-CATALOG.107      contents of Sig/M volume 107  
released February 14, 1983

CRC      .COM      checksum program  
ZCPR2      .IDX      index of this ten volume series  
SIG/M      .LIB      donation form

| index  | name        | size | crc   | description |
|--------|-------------|------|-------|-------------|
| 107.01 | SYSLIBHD.WS | 12K  | 5F 43 |             |
| 107.02 | SYSLIBUG.WS | 123K | 4F 5E |             |

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Sig/M volume 108 ZCPR2 and SYSLIB Upgrades  
 - Upgrades SIG/M Vols 98-107

-CATALOG.108 contents of Sig/M volume 108  
 released March 7, 1983

CRC .COM checksum program  
 Z2SYS-1.MOD explains upgrade

| index  | name         | size | crc   | description                               |
|--------|--------------|------|-------|-------------------------------------------|
| 108.01 | DU2 .ASM     | 72K  | 5F 2C | upgrades queue status report              |
| 108.02 | DU2 .COM     | 10K  | E7 32 | /                                         |
| 108.03 | LDIRZ .COM   | 6K   | B2 25 | corrects for M80 assembler error          |
| 108.04 | MKDIR .COM   | 8K   | C2 7F | corrects identifier error                 |
| 108.05 | SSORT .MAC   | 14K  | E3 32 | corrects identifier error                 |
| 108.06 | SVERSION.MAC | 1K   | 2D 3E | reflects new version number               |
| 108.07 | SYSLIB .REL  | 14K  | D4 8D | Version 2.5 of SYSLIB                     |
| 108.08 | ZCPR2 .ASM   | 56K  | 5B F1 | upgrades to mod 0.3                       |
| 108.09 | ZCPRHDR .LIB | 15K  | 3C 5B | upgrades to mod 0.3                       |
| 108.10 | Z2RAT .WQ    | 34K  | 6D 9E | ZCPR2 Rationale Manual (squeezed WS file) |
| 108.11 | Z2RAT .WQH   | 3K   | BF F3 | Rationale Manual headers                  |

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Sig/M volume 109 Word Processor - "The Secretary"

-CATALOG.109 contents of Sig/M volume 109  
released March 15, 1983

ABSTRACT.109 program documentation

| index  | name          | size | crc   | description                         |
|--------|---------------|------|-------|-------------------------------------|
| 109.01 | SECRETARY.ASM | 60K  | D9 C8 | Simple word processor program       |
| 109.02 | SECRETARY.COM | 11K  | 93 94 | /                                   |
| 109.03 | NSSEC .ASM    | 63K  | 49 78 | North Star version                  |
| 109.04 | USERMAN0.TXT  | 3K   | 3B EF | User manual for the program         |
| 109.05 | USERMAN1.TXT  | 22K  | 4A E2 | written with the program (and to be |
| 109.06 | USERMAN3.TXT  | 15K  | 73 6A | printed from the program).          |
| 109.07 | USERMAN4.TXT  | 17K  | 23 5E | /                                   |
| 109.08 | USERMAN5.TXT  | 6K   | 0B B8 | /                                   |
| 109.09 | ADDENDUM.TXT  | 8K   | 44 83 | /                                   |
| 109.10 | ADDEND2 .TXT  | 4K   | FD 8A | /                                   |
| 109.11 | DEMOFILE.TXT  | 4K   | 60 01 | demo text files                     |
| 109.12 | SAMPLTTR.TXT  | 2K   | 15 4E | /                                   |
| 109.13 | SAMPDATA.DAT  | 1K   | C0 2B | /                                   |

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Sig/M volume 110 dBASE (TM) and Super Calc (TM) programs

-CATALOG.110 contents of Sig/M volume 110  
released March 15, 1983

ABSTRACT.110 program documentation  
CRC .COM checksum program  
SIG/M .LIB donation program

| index  | name         | size | crc   | description                            |
|--------|--------------|------|-------|----------------------------------------|
| 110.01 | MAIN .CMD    | 4K   | 24 1A | Amateur Computer Group of New Jersey   |
| 110.02 | ACG .DBF     | 5K   | 49 02 | demonstration dBASEII modular data     |
| 110.03 | ADD .ACG     | 3K   | 28 8F | base. To initiate, type "dBASE main"   |
| 110.04 | BACKUP .ACG  | 1K   | 3C 12 | and follow prompts. Note the comments  |
| 110.05 | DEFAULTS.ACG | 1K   | F4 69 | in the files.                          |
| 110.06 | DELCHECK.ACG | 1K   | 20 A1 | !                                      |
| 110.07 | DELETE .ACG  | 1K   | 9E 31 | !                                      |
| 110.08 | DUPCHECK.ACG | 2K   | 83 DE | !                                      |
| 110.09 | DUPREC .ACG  | 3K   | 20 AA | !                                      |
| 110.10 | EDIT .ACG    | 3K   | 44 0A | !                                      |
| 110.11 | HELP .ACG    | 1K   | ED DF | !                                      |
| 110.12 | INIT .ACG    | 2K   | 5A 09 | !                                      |
| 110.13 | MAINTAIN.ACG | 2K   | EB C7 | !                                      |
| 110.14 | PHONE .ACG   | 2K   | D8 19 | !                                      |
| 110.15 | PRINT .ACG   | 2K   | 53 61 | !                                      |
| 110.16 | PURGE .ACG   | 2K   | 1A 08 | !                                      |
| 110.17 | REPORT .ACG  | 3K   | 67 95 | !                                      |
| 110.18 | SEARCH .ACG  | 4K   | 7F 2A | /                                      |
| 110.19 | VALID .ACG   | 5K   | 34 91 | /                                      |
| 110.20 | VERIFDEL.ACG | 2K   | 02 AE | /                                      |
| 110.21 | VERIFNEW.ACG | 2K   | C2 1E | /                                      |
| 110.22 | WSFILE .ACG  | 4K   | 1D A6 | /                                      |
| 110.23 | MAINTAIN.FMT | 1K   | A1 8D | /                                      |
| 110.24 | MOD-REC .FMT | 3K   | 48 D0 | /                                      |
| 110.25 | SAY-REC .FMT | 3K   | 16 1C | /                                      |
| 110.26 | COMPANY .NDX | 4K   | 09 84 | /                                      |
| 110.27 | LASTNAME.NDX | 3K   | 55 B2 | /                                      |
| 110.28 | ZIP .NDX     | 1K   | 23 2C | /                                      |
| 110.29 | CPS .CMD     | 3K   | 88 57 | Sets date from Mountain Hardware       |
| 110.30 | CPS .DOC     | 1K   | F2 CD | CPS card                               |
| 110.31 | DBDIR .DOC   | 1K   | 4D 60 | Example of ASM file in dBASE for       |
| 110.32 | DBDIR .LBR   | 15K  | 52 93 | directory read.                        |
| 110.33 | FORM .CMD    | 2K   | 9F 37 | Prints dBASE fields and                |
| 110.34 | FORM .DOC    | 1K   | 71 AD | structure                              |
| 110.35 | LABELPT1.CMD | 5K   | B5 38 | Structure for label printing           |
| 110.36 | LABELPT2.CMD | 5K   | 7E 33 | file.                                  |
| 110.37 | POKE1 .CMD   | 4K   | 64 FC | Poke memory from dBASE                 |
| 110.38 | POKE1 .DOC   | 1K   | 78 48 | /                                      |
| 110.39 | SHOWMEM .CMD | 5K   | DE A9 | Displays memory from dBASE             |
| 110.40 | SHOWMEM .DOC | 1K   | 1A 84 | /                                      |
| 110.41 | TIMECHAR.CMD | 4K   | 42 8C | Structure for job cost calculation.    |
| 110.42 | ARCS-DEP.CAL | 15K  | D0 FC | Calculates depreciation in Super Calc. |
| 110.43 | RULE-78 .CAL | 11K  | F6 81 | Supercalc Rule of 78 calculation.      |
| 110.44 | SAP27 .COM   | 2K   | 38 44 | Updated sort and pack program.         |
| 110.45 | SWEEP37 .COM | 28K  | B2 08 | Updated SWEEP program (WASH).          |

Sig/M volume 111 Hard disk utilities

-CATALOG.111 contents of Sig/M volume 111  
released March 15, 1983

CRC .COM checksum program  
SIG/M .LIB donation program

| index  | name         | size | crc   | description                           |
|--------|--------------|------|-------|---------------------------------------|
| 111.01 | BACKUP .ASM  | 31K  | 95 28 | Backs up hard disk where entire file  |
| 111.02 | BACKUP .COM  | 4K   | DA 72 | fits on one floppy disk.              |
| 111.03 | BACKUP .DOC  | 7K   | E5 0C | /                                     |
| 111.04 | BIGBURST.ASM | 12K  | 22 89 | Backs up hard disk where file must be |
| 111.05 | BIGBURST.COM | 2K   | CC 1C | stored on mutiple floppies because of |
| 111.06 | BIGBURST.DOC | 3K   | 45 E8 | size.                                 |
| 111.07 | FLOPCOPY.ASM | 17K  | B5 9E | Backs up a floppy to a floppy in a    |
| 111.08 | FLOPCOPY.COM | 3K   | 7A 23 | hard disk system with only a single   |
| 111.09 | FLOPCOPY.DOC | 2K   | 4A CD | floppy.                               |
| 111.10 | INTERCPM.ASM | 7K   | 7E 21 | Copy files between 5" and 8" CP/M.    |
| 111.11 | INTERCPM.COM | 3K   | 7C 87 | /                                     |
| 111.12 | INTERCPM.DOC | 2K   | 0B D5 | /                                     |
| 111.13 | JP .ASM      | 1K   | CB C5 | /                                     |
| 111.14 | JP .COM      | 1K   | 5B 58 | /                                     |
| 111.15 | JP .DOC      | 1K   | CB 32 | /                                     |
| 111.16 | INTERDOS.ASM | 20K  | E0 D1 | Moves data files between CP/M and     |
| 111.17 | INTERDOS.COM | 6K   | E2 13 | North Star disks.                     |
| 111.18 | INTERDOS.DOC | 6K   | 75 B9 | /                                     |
| 111.19 | MULTCOPY.ASM | 14K  | 7D 68 | Similar to PIP but prompts for new    |
| 111.20 | MULTCOPY.COM | 2K   | D1 FB | floppy when first one filled.         |
| 111.21 | MULTCOPY.DOC | 1K   | 7E F8 | /                                     |

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Sig/M volume 112 SIGNON/RBBS programs  
- Toronto RCP/M System

-CATALOG.111 contents of Sig/M volume 111  
released March 15, 1983

| index  | name         | size | crc   | description    |
|--------|--------------|------|-------|----------------|
| 112.01 | RBBENT27.BQS | 15K  | BA 04 |                |
| 112.02 | RBBEXIT1.BQS | 4K   | 50 7B |                |
| 112.03 | RBBMIN27.BQS | 19K  | 8B FB |                |
| 112.04 | RBBMIN27.DQC | 10K  | 4A E9 |                |
| 112.05 | RBBS-I/O.NQW | 3K   | 46 CE |                |
| 112.06 | RBBS-PC .BQS | 18K  | 1B B8 |                |
| 112.07 | RBBS31 .AQC  | 19K  | C5 32 |                |
| 112.08 | RBBS31 .DQC  | 3K   | 09 01 |                |
| 112.09 | RBBSTIME.FQX | 2K   | 1F AB |                |
| 112.10 | RBSCLOCK.BAS | 3K   | B7 6D |                |
| 112.11 | RBSPURGE.BQS | 3K   | D6 D0 |                |
| 112.12 | RBSPURGE.DQC | 2K   | 24 4B |                |
| 112.13 | RBSUTL31.AQC | 8K   | FB 12 |                |
| 112.14 | SIGNON .SEE  | 2K   | BF 98 | Explains disk. |
| 112.15 | SIGNON-1.ARC | 64K  | C0 B2 |                |
| 112.16 | SIGNON-1.DIR | 1K   | 9F F6 |                |
| 112.17 | SIGNON-2.ARC | 62K  | 3B 28 |                |
| 112.18 | SIGNON-2.DIR | 1K   | A2 3A |                |

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Sig/M volume 113

KERMIT - PC/Host Main Frame  
Communications Modem program  
- Columbia University Center  
for Computing Activities

-CATALOG.113 contents of Sig/M volume 113  
released March 17, 1983

ABSTRACT.113 disk readme file  
USQ .COM unsqueeze program

| index  | name         | size | crc   | description                   |
|--------|--------------|------|-------|-------------------------------|
| 113.01 | CPMZ100 .HEX | 25K  | 96 B1 | KERMIT - Modem Communications |
| 113.02 | CPMZ100 .NOT | 2K   | 62 F0 | for 8080/Z80 CP/M, IBM PC-Dos |
| 113.03 | KERMIT .CQ   | 23K  | 1E C7 | with main frame host systems  |
| 113.04 | PCDOWNLO.DQC | 7K   | FF 25 |                               |
| 113.05 | PCKERM .CQR  | 12K  | F0 6B |                               |
| 113.06 | PCKERMIT.ASM | 119K | 4B F1 |                               |
| 113.07 | PCKERMIT.FQX | 11K  | B9 0B |                               |
| 113.08 | PCKERMIT.HLP | 3K   | E6 6F |                               |
| 113.09 | PCKERMIT.NOT | 4K   | D6 C6 |                               |
| 113.10 | PCKEXE .BAS  | 2K   | 3A AC |                               |
| 113.11 | PCKFIX .ASM  | 5K   | 82 47 |                               |
| 113.12 | PCKGET .BAS  | 2K   | E8 E4 |                               |
| 113.13 | PCKSEND .FOR | 1K   | 12 54 |                               |

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## Sig/M Volume 114 PISTOL v2.0 Portably Implemented STack Oriented Language

by Ernest E. Bergmann

-CATALOG.114 contents of Sig/M volume 114  
released April 1, 1983

CRC .COM checksum program  
ABSTRACT.114 disk documentation and copywrite notice

| index  | name         | size | crc   | description                           |
|--------|--------------|------|-------|---------------------------------------|
| 114.01 | PISTOL .COM  | 16K  | F9 C2 | PISTOL - "a language in the footsteps |
| 114.02 | PISTOL .C    | 5K   | 9F A4 | of FORTH and STOIC"                   |
| 114.03 | PISTOL .H    | 5K   | E1 07 | !                                     |
| 114.04 | PISTOL .HLP  | 7K   | 83 E6 | !                                     |
| 114.05 | PISTOL .PAS  | 42K  | C2 A5 | !                                     |
| 114.06 | ARITH .      | 2K   | 9E 11 | !                                     |
| 114.07 | CORE2 .      | 16K  | 22 5B | !                                     |
| 114.08 | DEFS .       | 3K   | 56 D2 | !                                     |
| 114.09 | EDITOR .     | 4K   | D6 61 | !                                     |
| 114.10 | ENVIRON .DOC | 2K   | C9 61 | !                                     |
| 114.11 | FUTURE .DEV  | 5K   | 89 18 | !                                     |
| 114.12 | IO .         | 9K   | EA 1E | !                                     |
| 114.13 | ITCOND .     | 11K  | B6 3D | !                                     |
| 114.14 | LOGIC .      | 2K   | F4 EE | !                                     |
| 114.15 | MEMOPS .     | 4K   | 88 6A | !                                     |
| 114.16 | MISC .       | 5K   | 78 18 | !                                     |
| 114.17 | PBASE2 .     | 23K  | 9B 92 | !                                     |
| 114.18 | PIST2A .C    | 6K   | 45 FB | !                                     |
| 114.19 | PIST2B .C    | 4K   | 26 ED | !                                     |
| 114.20 | PIST2C .C    | 4K   | 31 FA | !                                     |
| 114.20 | PIST2D .C    | 4K   | E7 9A | !                                     |
| 114.21 | PIST2E .C    | 7K   | C9 6A | !                                     |
| 114.22 | PISTSUB .SUB | 1K   | 40 82 | !                                     |
| 114.23 | READ .ME     | 7K   | 7C FF | !                                     |
| 114.24 | STACK .      | 3K   | 03 CB | /                                     |
| 114.25 | SYSCONS .    | 4K   | D7 3B | /                                     |
| 114.26 | SYSVARS .    | 8K   | 22 D6 | /                                     |
| 114.27 | TUTORIAL.    | 13K  | 61 D5 | /                                     |
| 114.28 | VOCAB .      | 6K   | 09 F4 | /                                     |

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## Sig/M Volume 115 Miscellaneous programs

-CATALOG.115 contents of Sig/M volume 115  
released May 14, 1983

ABSTRACT.115 program information  
CRC .COM checksum program  
SIG/M .LIB donation form

| index  | name          | size | crc   | description                             |
|--------|---------------|------|-------|-----------------------------------------|
| 115.01 | COMPASC .ASM  | 8K   | 7F 21 | Compares ASCII files                    |
| 115.02 | COMPASC .COM  | 2K   | 30 7D | /                                       |
| 115.03 | COMPBIN .ASM  | 9K   | 07 D0 | Compares binary files                   |
| 115.04 | COMPBIN .COM  | 2K   | 3D 2C | /                                       |
| 115.05 | CPMD2 .FOR    | 10K  | 8B 10 | Process CP/M format 8" single density   |
| 115.06 | CPMDEC .DOC   | 2K   | 94 70 | disks on PDP-11 under RT-11 or TSX-Plus |
| 115.07 | CPMDEC .FOR   | 24K  | D7 65 | operating systems                       |
| 115.08 | DEL .ASM      | 4K   | 80 DC | Query delete program                    |
| 115.09 | DEL .COM      | 1K   | D5 7F | /                                       |
| 115.10 | DEL .DOC      | 2K   | E2 0B | /                                       |
| 115.11 | FPRINT .ASM   | 7K   | 3C AD | Sets printer left margin, double space, |
| 115.12 | FPRINT .COM   | 2K   | D0 4D | all caps and number of copies           |
| 115.13 | FPRINT .DOC   | 2K   | 40 B8 | /                                       |
| 115.14 | MORTGAGE.COM  | 21K  | A4 B3 | Calculates Canadian mortgage payments   |
| 115.15 | MORTGAGE.PQI  | 7K   | 39 A0 | /                                       |
| 115.16 | MUFIX .DOC    | 3K   | 30 13 | MUMATH fix                              |
| 115.17 | MUMATRIX.FIX  | 2K   | D7 A3 | /                                       |
| 115.18 | PSEUDO .DOC   | 8K   | 2D 91 | Combined software-hardware pseudo run   |
| 115.19 | PSEUDO .ASM   | 16K  | 59 ED | to single step                          |
| 115.20 | RCPM-36 .LST  | 31K  | 62 D0 | Revised Bulletin Board list             |
| 115.21 | ROMSUM .ASM   | 3K   | 7A 38 | Verifies ROMs                           |
| 115.22 | ROMSUM .COM   | 1K   | 03 E1 | /                                       |
| 115.23 | T1-TAX82.CAL  | 17K  | D9 8D | Supercalc matrix for Canadian taxes     |
| 115.24 | UNSPPOOL .ASM | 14K  | A0 6E | Updated spooler                         |
| 115.25 | UNSPPOOL .COM | 1K   | 05 88 | /                                       |

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Sig/M Volume 116      Programs from Toronto RCP/M Systems  
Including Forth and ZCPR2 upgrades

-CATALOG.116      contents of Sig/M volume 116  
released May 16, 1983

ABSTRACT.116      program information  
CRC      .COM      checksum program  
SIG/M      .LIB      donation form

| index  | name         | size | crc   | description                       |
|--------|--------------|------|-------|-----------------------------------|
| 116.01 | APLFORTH.TIP | 1K   | 8F 3A | How to run Forth on an Apple      |
| 116.02 | APZCPR2 .LBR | 6K   | 46 98 | Implements ZCPR2 on an Apple      |
| 116.03 | BISHOW11.ASM | 10K  | 6C 8A | SHOW - upgraded to go forward and |
| 116.04 | BISHOW11.COM | 1K   | 6B EC | backwards in the file             |
| 116.05 | FORTH130.ASM | 72K  | 87 E6 | Forth for the Apple (or other     |
| 116.06 | FORTH130.USE | 3K   | 2B 70 | machines)                         |
| 116.07 | I/OCAP11.ASM | 19K  | CA FF | Creates disk file of all I/O      |
| 116.08 | LISTTU84.ASM | 44K  | 8D F7 | List program to take advantage of |
| 116.09 | LISTTU84.COM | 4K   | 95 22 | Okidata 84 features               |
| 116.10 | NZCPR203.DIF | 4K   | 85 E7 | Unofficial ZCPR2 upgrades         |
| 116.11 | NZCPR204.DIF | 6K   | 81 F4 | /                                 |
| 116.12 | NZCPR205.DIF | 5K   | 63 42 | /                                 |
| 116.13 | NZCPR206.DIF | 7K   | 24 91 | /                                 |
| 116.14 | NZCPR207.DIF | 10K  | FF DB | /                                 |
| 116.15 | NZCPRHDR.DIF | 3K   | EC 2A | /                                 |
| 116.16 | TARGET .BAS  | 9K   | B1 E1 | Microsoft Basic game              |

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Sig/M Volume 117      Programs from Toronto RCP/M Systems  
Including Macro Toolkit and Modem Overlays

-CATALOG.117    contents of Sig/M volume 117  
released May 16, 1983

ABSTRACT.117    program information  
CRC            .COM    checksum program  
SIG/M        .LIB    donation form

| index  | name         | size | crc   | description                              |
|--------|--------------|------|-------|------------------------------------------|
| 117.01 | CATXRF11.BQS | 4K   | A2 46 | Update for master catalog system prints  |
| 117.02 | CATXRF11.COM | 21K  | 13 C6 | references by file name, ext or disk no. |
| 117.03 | MDM705HA.AQM | 7K   | EA 05 | DC Hayes Modem 705 overlay               |
| 117.04 | MDM705KP.MQG | 1K   | 9B 5B | KAYPRO Modem 705 overlay                 |
| 117.05 | MDM705P .AQM | 87K  | 73 2A | Slows Modem 705 dialing                  |
| 117.06 | MDM705US.ASM | 10K  | D2 8E | Modem 705 H-19 overlay                   |
| 117.07 | REDEF .MAC   | 8K   | 60 AA | Allows simple redefinition of key input  |
| 117.08 | Z80 .RDF     | 1K   | 52 A2 | /                                        |
| 117.09 | TOOLINTF.DOC | 19K  | E6 CE | Library of useful macros                 |
| 117.10 | TOOLS .AQC   | 38K  | 37 2E | /                                        |
| 117.11 | TOOLS .DOC   | 2K   | 7E FD | /                                        |
| 117.12 | TOOLS .RQL   | 10K  | 39 37 | /                                        |

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SIG/M      Volume 118      XLISP: an Experimental Object Oriented Language  
by David Betz

-CATALOG.118    contents of SIG/M Volume 118  
released        June 14, 1983

ABSTRACT.118            introduction to disk  
CRC        .COM            checksum program  
SIG/M     .LIB            disk donation form

| index  | name        | size | crc   | description |
|--------|-------------|------|-------|-------------|
| 118.01 | XLISP .COM  | 39K  | D1 E6 | XLISP       |
| 118.02 | XLISP .DOC  | 29K  | 80 BC |             |
| 118.03 | ALLOC .C    | 4K   | DD 5A |             |
| 118.04 | JUNK .C     | 1K   | 9B E4 |             |
| 118.05 | PT .LSP     | 4K   | 48 2D |             |
| 118.06 | SBRK .ASM   | 3K   | A5 74 |             |
| 118.07 | SETJMP .ASM | 2K   | D6 29 |             |
| 118.08 | SETJMP .H   | 1K   | AA 08 |             |
| 118.09 | T .LSP      | 4K   | CA 10 |             |
| 118.10 | XLBIND .C   | 2K   | 13 58 |             |
| 118.11 | XLDMEM .C   | 9K   | BD CD |             |
| 118.12 | XLEVAL .C   | 7K   | B4 AB |             |
| 118.13 | XLFI0 .C    | 5K   | CE 45 |             |
| 118.14 | XLIO .C     | 2K   | 2A 98 |             |
| 118.15 | XLISP .C    | 2K   | 0E 78 |             |
| 118.16 | XLISP .H    | 6K   | 2A F9 |             |
| 118.17 | XLISP .LNK  | 1K   | C5 10 |             |
| 118.18 | XLKMAP .C   | 7K   | 1C E7 |             |
| 118.19 | XLLIST .C   | 12K  | 31 87 |             |
| 118.20 | XLMAKE .SUB | 2K   | 47 1F |             |
| 118.21 | XLMath .C   | 9K   | C1 54 |             |
| 118.22 | XLOBJ .C    | 18K  | 32 46 |             |
| 118.23 | XLPRIN .C   | 4K   | D5 B2 |             |
| 118.24 | XLREAD .C   | 8K   | A3 05 |             |
| 118.25 | XLSTR .C    | 6K   | 22 71 |             |
| 118.26 | XLSUBR .C   | 12K  | 21 31 |             |

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SIG/M      Volume 119      Library Filing and Utility System,  
BYEII Library File

-CATALOG.119 contents of SIG/M Volume 119  
released June 19, 1983

ABSTRACT.119 info re this volume  
CRC .COM checksum program

| index  | name         | size | crc   | description                          |
|--------|--------------|------|-------|--------------------------------------|
| 119.01 | BYEII .LBR   | 72K  | C1 B3 | Second generation BYE in LBR format. |
| 119.02 | CHGLIB14.LBR | 18K  | B1 7F | Library file and utility system.     |
| 119.03 | LBR .DOC     | 3K   | 25 26 | One file contains all of the         |
| 119.04 | LCRCKNEW.LBR | 10K  | 9C CF | files and information necessary      |
| 119.05 | LDIR .COM    | 6K   | 0D 0B | to get a program online. All program |
| 119.06 | LDIR .LBR    | 13K  | B0 39 | modules are compacted into a single  |
| 119.07 | LM16 .ASM    | 33K  | 51 AB | library (.LBR) file. Using these     |
| 119.08 | LMODEMXX.MSG | 2K   | D2 10 | programs you can extract from the    |
| 119.09 | LRUN20 .ASM  | 21K  | F9 F9 | LBR file those portions of the total |
| 119.10 | LRUN20 .COM  | 2K   | 19 1B | files you may need. In this way when |
| 119.11 | LU210 .DOC   | 29K  | CA C6 | you receive a library file you are   |
| 119.12 | LU211 .COM   | 18K  | 3D 98 | assured that you have all the info   |
| 119.13 | LUDEF1 .DOC  | 7K   | F2 A0 | you need.                            |

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SIG/M Volume 120 MODEM901 and H-89 Music Composer

-CATALOG.120 contents of SIG/M Volume 120  
released June 19, 1983

CRC .COM checksum program  
SIG/M .LIB disk donation form

| index  | name         | size | crc   | description                   |
|--------|--------------|------|-------|-------------------------------|
| 120.01 | MODEM901.FIX | 1K   | 7C 47 | MODEM9xx merges MODEM796      |
| 120.02 | MODEM901.INF | 4K   | DA 11 | and MDM707 in .LBR form.      |
| 120.03 | MODEM901.LBR | 140K | AE 85 | (see SIG/M 119).              |
| 120.04 | CHGLIB14.LBR | 18K  | B1 7F | Change phone numbers in MODEM |
| 120.05 | ABBA .       | 4K   | 46 AD | Music composing program       |
| 120.06 | COMPOSER.ASM | 32K  | 8C 5C | for H-89 or any GI AY38910    |
| 120.07 | COMPOSER.COM | 4K   | 2C E0 | program sound chip board.     |
| 120.08 | COMPOSER.DOC | 9K   | 8C 7B | /                             |
| 120.09 | FAMILY .     | 3K   | 50 E3 | /                             |
| 120.10 | FATHER .     | 1K   | 43 2B | /                             |
| 120.11 | LOVEYOU .    | 4K   | 89 81 | /                             |
| 120.12 | MAJESTY .    | 2K   | CF A6 | /                             |
| 120.13 | PRAISE .     | 1K   | 17 A5 | /                             |
| 120.14 | VOICE .      | 2K   | 24 E0 | /                             |

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SIG/M      Volume 122      ZCPR2 for the 8080 Processor  
                                  released      June 29, 1983

-CATALOG.122    contents of SIG/M Volume 122  
 -ZCPR2 .IDX    index of SIG/M vols 98-108

CRC      .COM      checksum program  
 SIG/M    .LIB      disk donation form

| index  | name         | size | crc   | description                        |
|--------|--------------|------|-------|------------------------------------|
| 122.01 | DU2-8080.ASM | 71K  | 6A DF | Programs and information necessary |
| 122.02 | DU2-8080.COM | 10K  | FD 52 | to run ZCPR2 on 8080 processor.    |
| 122.03 | HELP8080.ASM | 35K  | E4 C9 | Z80 ZCPR2, documentation files     |
| 122.04 | HELP8080.COM | 3K   | D5 5B | and all other programs needed to   |
| 122.05 | LRUN8080.ASM | 25K  | 3F 6A | implement this modification can    |
| 122.06 | LRUN8080.COM | 2K   | 41 84 | be found on SIG/M Volumes 98-108.  |
| 122.07 | ZCPR8080.ASM | 57K  | 39 12 | /                                  |
| 122.08 | ZCPR8080.DOC | 3K   | 82 17 | /                                  |

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SIG/M Volume 123 Miscellaneous LBR and other files

-CATALOG.123 contents of SIG/M Volume 123  
released July 5, 1983

|  |       |      |  |                    |
|--|-------|------|--|--------------------|
|  | CRC   | .COM |  | checksum program   |
|  | SIG/M | .LIB |  | disk donation form |

  

| index  | name         | size | crc   | description                  |
|--------|--------------|------|-------|------------------------------|
| 123.01 | 6502DASM.LBR | 11K  | B0 6D | 6502 disassembler            |
| 123.02 | ALIENS11.LBR | 28K  | F3 B6 | Fun and games                |
| 123.03 | FIND-20 .LBR | 11K  | E0 20 | String finding utility       |
| 123.04 | INKEY .REL   | 1K   | 67 D6 | Inkey improvement for BASCOM |
| 123.05 | INKEY .Z80   | 3K   | E0 65 | /                            |
| 123.06 | MATHLIB .ASM | 4K   | 94 90 | 16 bit math for 6805         |
| 123.07 | MATHLIB .SRC | 11K  | F7 FA | 16 bit math for 8048         |
| 123.08 | MATHLIB .Z80 | 3K   | 3D 0E | 16 bit math for Z80          |
| 123.09 | QDMP .LBR    | 47K  | DE 8D | Simulation model             |
| 123.10 | OPSYN .ASM   | 2K   | 1C 82 | IEEE mnemonics with XASM05   |
| 123.11 | SORTUSER.BQS | 3K   | 52 39 | Sorts bulletin board users   |
| 123.12 | XFORMER .BQS | 13K  | F9 EC | Transformer design           |
| 123.13 | XMODEM74.LBR | 80K  | 4A 75 | Xmodem update                |

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SIG/M Volume 124 ZCPR2 AND SYSLIB UPGRADES

Volume 1 of a 2 volume upgrade

-CATALOG.124 contents of SIG/M Volume 124  
released July 11, 1983

|              |                              |
|--------------|------------------------------|
| ABSTRACT.124 | information re this volume   |
| ZCPR2 .IDX   | index of SIG/M ZCPR2 volumes |
| CRC .COM     | checksum program             |
| SIG/M .LIB   | disk donation form           |

| index  | name         | size | crc   | description                    |
|--------|--------------|------|-------|--------------------------------|
| 124.01 | COMMENT .COM | 1K   | 88 40 | ZCPR2 upgrade modules          |
| 124.02 | COMPARE .HLP | 7K   | A4 C0 |                                |
| 124.03 | ECHO .COM    | 1K   | C1 E9 |                                |
| 124.04 | GENINS .COM  | 14K  | A3 81 |                                |
| 124.05 | MENU8080.COM | 3K   | E1 40 |                                |
| 124.06 | PAGE .COM    | 8K   | 43 78 |                                |
| 124.07 | PATH .COM    | 5K   | 43 61 |                                |
| 124.08 | PHELP .COM   | 8K   | 0A ED |                                |
| 124.09 | PRINT3 .COM  | 8K   | 19 02 |                                |
| 124.10 | SAK .COM     | 2K   | 29 61 |                                |
| 124.11 | SYSLIB .HLP  | 15K  | DF D5 |                                |
| 124.12 | SYSLIB .REL  | 14K  | 1C 54 |                                |
| 124.13 | TINIT .COM   | 5K   | B1 C7 |                                |
| 124.14 | UPGRADE .DOC | 18K  | 98 E8 | Documentation for this upgrade |
| 124.15 | Z2ALT .HLP   | 28K  | AD 4E |                                |
| 124.16 | ZCPR2-QZ.LBR | 74K  | FF AF | ZCPR2 for Osborne-1            |

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SIG/M Volume 125 ZCPR2 AND SYSLIB UPGRADES

Volume 2 of a 2 volume upgrade

-CATALOG.125 contents of SIG/M Volume 125  
released July 11, 1983

|              |                              |
|--------------|------------------------------|
| ABSTRACT.125 | information re this volume   |
| ZCPR2 .IDX   | index of SIG/M ZCPR2 volumes |
| CRC .COM     | checksum program             |
| SIG/M .LIB   | donation form                |
| USQ .COM     | unsqueeze program            |

| index  | name         | size | crc   | description                        |
|--------|--------------|------|-------|------------------------------------|
| 125.01 | COMMENT .MQC | 5K   | 3D A4 | ZCPR2 upgrade modules              |
| 125.02 | ECHO .MQC    | 4K   | 4C CB |                                    |
| 125.03 | GENINS .MQC  | 31K  | CF 23 |                                    |
| 125.04 | MENUB080.MQC | 16K  | 55 4A |                                    |
| 125.05 | PAGE .MQC    | 6K   | 59 5B |                                    |
| 125.06 | PHelp .MQC   | 21K  | 1F F1 |                                    |
| 125.07 | PRINT3 .MQC  | 20K  | 17 B8 |                                    |
| 125.08 | SAK .MQC     | 6K   | 71 48 |                                    |
| 125.09 | SDIR .MQC    | 20K  | 57 50 |                                    |
| 125.10 | SEPRINT .MQC | 1K   | AC A8 |                                    |
| 125.11 | SEPSTR .MQC  | 2K   | C8 5E |                                    |
| 125.12 | SVERSION.MQC | 1K   | 46 7A |                                    |
| 125.13 | SYSTEST2.MQC | 3K   | 64 F7 |                                    |
| 125.14 | TEMPLATE.MQC | 12K  | 14 26 |                                    |
| 125.15 | TINIT .MQC   | 9K   | 37 EB |                                    |
| 125.16 | ZCPR2-KP.LBR | 13K  | 56 A2 | ZCPR2 for the Kaypro II            |
| 125.17 | ZCPR2-MD.LBR | 25K  | 2C BC | ZCPR2 for the Morrow MicroDecision |

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SIG/M Volume 126 ROFF4, V1.50 Text Formatter  
by Ernest E. Bergmann

-CATALOG.126 contents of SIG/M Volume 126  
released August 1, 1983

ABSTRACT.126 explains how to use this disk  
CRC .COM checksum program  
SIG/M .LIB disk donation form

| index  | name         | size | crc   | description                               |
|--------|--------------|------|-------|-------------------------------------------|
| 126.01 | BPTST .      | 1K   | B4 5E | Test formatter capable of maximizing      |
| 126.02 | DIO .H       | 1K   | BF F7 | printer capability. Special symbols       |
| 126.03 | EQN .        | 1K   | 3A 2C | or fonts can be defined. Can create       |
| 126.04 | EXY1 .       | 1K   | 64 18 | super and subscripts and backspace        |
| 126.05 | EXYDEMO .SUB | 1K   | 4B AB | on most printers. "Preprocessor"          |
| 126.06 | FOOT .       | 1K   | 60 77 | directives can be used to merge stock     |
| 126.07 | FORM .       | 1K   | E2 BD | phrases, boiler plate, make macro         |
| 126.08 | L2 .COM      | 17K  | 87 0F | definitions, automate numbering,          |
| 126.09 | LIST .       | 1K   | EC D5 | create footnotes, table of contents, etc. |
| 126.10 | MATRIX .     | 1K   | BF 72 |                                           |
| 126.11 | MX .         | 6K   | DA 43 |                                           |
| 126.12 | NDIO .C      | 5K   | 14 9F |                                           |
| 126.13 | NEST .       | 1K   | 81 99 |                                           |
| 126.14 | PAGES .      | 2K   | AA 00 |                                           |
| 126.15 | ROFF4 .C     | 12K  | 53 35 |                                           |
| 126.16 | ROFF4 .COM   | 30K  | 37 02 |                                           |
| 126.17 | ROFF4 .CRL   | 7K   | CF A0 |                                           |
| 126.18 | ROFF4 .DOC   | 31K  | 37 B9 |                                           |
| 126.19 | ROFF4 .H     | 9K   | D4 C5 |                                           |
| 126.20 | ROFF4 .SUB   | 1K   | 66 BC |                                           |
| 126.21 | ROFF41 .C    | 7K   | DB 83 |                                           |
| 126.22 | ROFF41 .CRL  | 4K   | 7C 45 |                                           |
| 126.23 | ROFF42 .C    | 7K   | A7 7B |                                           |
| 126.24 | ROFF42 .CRL  | 5K   | B9 DA |                                           |
| 126.25 | ROFF43 .C    | 5K   | 5A B0 |                                           |
| 126.26 | ROFF43 .CRL  | 4K   | 97 22 |                                           |
| 126.27 | ROFF44 .C    | 6K   | 3E 66 |                                           |
| 126.28 | ROFF44 .CRL  | 4K   | 8B 32 |                                           |
| 126.29 | ROFF45 .C    | 8K   | 39 37 |                                           |
| 126.30 | ROFF45 .CRL  | 4K   | 1D DA |                                           |
| 126.31 | ROFF46 .C    | 8K   | CD F0 |                                           |
| 126.32 | ROFF46 .CRL  | 5K   | B6 BD |                                           |
| 126.33 | ROFF47 .C    | 8K   | B0 15 |                                           |
| 126.34 | ROFF47 .CRL  | 5K   | 5B FD |                                           |
| 126.35 | SCI .ASM     | 4K   | EB 33 |                                           |
| 126.36 | SCI .COM     | 2K   | 39 24 |                                           |
| 126.37 | STACKTST.    | 1K   | F2 70 |                                           |

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SIG/M Volume 129 dBASEII ORDER AND INVENTORY PROGRAM  
JRT PASCAL USER GROUP VOL 1

-CATALOG.129 contents of SIG/M Volume 129  
released September 9, 1983

CRC .COM checksum program  
SIG/M .LIB disk donation form

| index  | name         | size | crc   | description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|--------------|------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 129.01 | DB2SIG/M.LBR | 180K | 0E 47 | A complete dBASEII (TM) order and inventory program. Covers orders for and inventory of SIG/M Vols 1 to 136. When order is entered program advises if in stock or backordered and makes appropriate adjustment to inventory. Prints invoices, shipping labels, disk labels, various reports. Includes FASTBASE (TM) search program which locates any string in any field in all records. Automatic date verification. CompuPro time and date verification. Runs on both CP/M and CP/M 86. Etc.                                                                              |
| 129.02 | JRTPAS-1.LBR | 45K  | F5 B6 | A comprehensive set of JRT Pascal routines including those in Dr. Wirth's USER MANUAL AND REPORT.<br>To extract the above files you will need LU.COM available on SIG/M Vol 119.<br>TO use LU - type LU<br>TYPE -O at the prompt to open a file<br>TYPE the name of the .LBR file<br>TYPE -L to list the items in the file<br>TYPE -E *.* to extract all files<br>(make sure you have room on the disk - or else extract part at a time.)<br>TYPE -C to close the file<br>TYPE ^C to exit.<br>(LU requires 18K and we just did not have enough room to add it to this disk) |

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SIG/M      Volume 131      ABSTRACTS FROM PASCAL Z USER GROUP VOL 23  
 Library of procedures and functions

-CATALOG.131    contents of SIG/M Volume 131  
                  released    September 9, 1983

ABSTRACT.131    information regarding this disk  
 CRC            .COM    checksum program  
 SIG/M          .LIB    disk donation form

| index  | name         | size | crc   | description                                |
|--------|--------------|------|-------|--------------------------------------------|
| 131.01 | ALPH2INT.PAS | 4K   | 00 0D | returns integer value of string            |
| 131.02 | BEEP .SRC    | 1K   | 9F 66 | procedure to ring bell                     |
| 131.03 | BLNKSCRN.SRC | 1K   | 34 B9 | procedure to blink                         |
| 131.04 | CASELIB .PAS | 2K   | B6 2F | function to turn lower to upper case       |
| 131.05 | CHARIN .SRC  | 1K   | 98 A9 | procedure to input char.                   |
| 131.06 | CHROUT .SRC  | 1K   | 43 4F | procedure to output char.                  |
| 131.07 | CLOCK .SRC   | 11K  | 3D DF | calendar clock master program              |
| 131.08 | CLRHM .SRC   | 1K   | CD 59 | proc. to clear screen & home cursor        |
| 131.09 | CMPTXT .SRC  | 2K   | DC D9 | proc. to compare two ASCII strings         |
| 131.10 | CONFIN .PAS  | 1K   | 64 9E | proc. that returns standard deviation      |
| 131.11 | DATE .SRC    | 2K   | 5C A7 | uses clock board                           |
| 131.12 | DATENTIM.PAS | 3K   | 0A 48 | prints date from Godbout SSI board         |
| 131.13 | DATENTIM.SRC | 5K   | 5A 67 | /                                          |
| 131.14 | DECOMPOS.PAS | 3K   | 0C AC | matrix function                            |
| 131.15 | DRVLOG .SRC  | 2K   | 48 81 | routine determines logged drive            |
| 131.16 | GETEXT .SRC  | 2K   | E1 FE | routine to get text from console           |
| 131.17 | HEXOUT .SRC  | 2K   | 39 FF | hex print to console from program          |
| 131.18 | INITSEED.    | 1K   | 6B E6 | procedure to get seed by calling "Time"    |
| 131.19 | KARET .SRC   | 1K   | E2 7D | outputs CR/LF to console                   |
| 131.20 | KBDIN .SRC   | 2K   | DD FD | checks keyboard, returns with ASCII in A   |
| 131.21 | LEVEL .PAS   | 3K   | BE 89 | procedure to use "HIPAD" to print oversize |
| 131.22 | LEVEL .SRC   | 7K   | B2 AB | /                                          |
| 131.23 | LITEPEN .SRC | 2K   | C5 4A | function to read port of light pen         |
| 131.24 | MEDIAN .PAS  | 2K   | 2F 81 | determines median value of list            |
| 131.25 | MEDIAN .SRC  | 4K   | E0 CE | /                                          |
| 131.26 | MESIJ .SRC   | 2K   | 82 4B | prints message to console                  |
| 131.27 | MNANDVAR.PAS | 1K   | E9 A7 | procedure to get mean/variance             |
| 131.28 | NAMEDATE.PAS | 2K   | 08 4E | changes date from integer to strings       |
| 131.29 | NAMEDATE.SRC | 5K   | 12 5B | /                                          |
| 131.30 | PLOT .PAS    | 4K   | 09 AA | X Y plots                                  |
| 131.31 | POINT .SRC   | 5K   | 08 DD | reads "HIPAD"                              |
| 131.32 | POPSTATS.PAS | 9K   | D6 C2 | calculates mean, mode, etc.                |
| 131.33 | POPSTATS.SRC | 25K  | 07 D5 | /                                          |
| 131.34 | QQSORT .PAS  | 6K   | 07 32 | updated QQSORT                             |
| 131.35 | READQ .SRC   | 1K   | 12 7F | reads console w/o waiting for CR           |
| 131.36 | READREAL.PAS | 10K  | 7A 5B | flexible proc. for console input           |
| 131.37 | RNDKNUTH.LIB | 7K   | CA AC | Knuth random generator method              |
| 131.38 | SELECT .PAS  | 5K   | AF 02 | function to partially sort array           |
| 131.39 | SELECT .SRC  | 11K  | EE 40 | /                                          |
| 131.40 | SMOOTH9 .PAS | 2K   | F8 12 | smooths 9 points of data                   |
| 131.41 | STREAM .SRC  | 5K   | 01 1E | reads a stream from "HIPAD"                |
| 131.42 | TIME .SRC    | 2K   | 78 01 | reads clock digit                          |
| 131.43 | TSTMEDN .PAS | 7K   | 9F AB | median test                                |
| 131.44 | TSTQSORT.PAS | 2K   | 11 E6 | Qsort test                                 |
| 131.45 | USEPLOT .PAS | 2K   | 7A 81 | used as shell to plot                      |
| 131.46 | USEWLREG.PAS | 3K   | 51 ED | tests plot procedures                      |
| 131.47 | WAVE .SRC    | 5K   | 96 A9 | fill array from Hipad in stream mode       |

131.48 WEEKDAY .PAS 1K 24 4C function to change date to day  
131.49 WEEKDAY .SRC 1K AE C3 /  
131.50 ZELLER .PAS 2K 36 8D returns time between dates  
131.51 ZELLER .SRC 3K BD 8D /

SIG-M Library -CATALOG Volume Number-131, 54 Files cataloged.

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SIG/M Volume 132 PASCAL Z USER GROUP VOLUME 24

-CATALOG.132 contents of SIG/M Volume 132  
released September 9, 1983

ABSTRACT.132 information regarding this disk

| index  | name         | size | crc   | description                           |
|--------|--------------|------|-------|---------------------------------------|
| 132.01 | BIOMO .PAS   | 9K   | 0F BD | monthly bio-graf                      |
| 132.02 | CHECKS .PAS  | 26K  | 45 16 | updates NOW with on-line code changes |
| 132.07 | EXAMPL .CHK  | 1K   | EE B3 | /                                     |
| 132.08 | EXAMPL .DOC  | 6K   | F6 94 | /                                     |
| 132.09 | EXAMPL .NAM  | 2K   | 9A 80 | /                                     |
| 132.04 | DEL .COM     | 1K   | 6F 74 | file delete program                   |
| 132.05 | EPSON .COM   | 8K   | 56 BB | Epson printer program                 |
| 132.06 | EPSON .PAS   | 3K   | B1 1F | /                                     |
| 132.12 | LS .C        | 8K   | C1 E4 | directory listing program             |
| 132.13 | LS .COM      | 8K   | 45 1E | /                                     |
| 132.14 | LS .DOC      | 2K   | 9B 73 | /                                     |
| 132.15 | PROM .FIL    | 18K  | BD 30 | illustrates how prom burner works     |
| 132.16 | QUIZ .TXT    | 2K   | 64 76 | test                                  |
| 132.17 | QUIZANS .TXT | 3K   | 46 88 | /                                     |
| 132.18 | READCMD .DOC | 5K   | CF F6 | program to handle arguments in a      |
| 132.19 | READCMD .P   | 8K   | 37 EC | command tail                          |
| 132.20 | READCMD .REL | 3K   | 4F 93 | /                                     |
| 132.10 | GETNUMS .P   | 4K   | AC 1D | /                                     |
| 132.11 | GETNUMS .REL | 1K   | BD F1 | /                                     |
| 132.25 | TESTCMD .COM | 14K  | BE 8C | /                                     |
| 132.26 | TESTCMD .PAS | 4K   | 3D D2 | /                                     |
| 132.03 | CTOI .REL    | 1K   | 3D 11 | /                                     |
| 132.21 | ROTATE .BAS  | 3K   | A6 B9 | letter game                           |
| 132.22 | ROTATE .COM  | 13K  | F2 61 | /                                     |
| 132.23 | STUDENT .COM | 19K  | CE 75 | keep student grades                   |
| 132.24 | STUDENT .PAS | 20K  | EE CD | /                                     |
| 132.27 | TRACER .AZM  | 11K  | 0B AB | trace execution of Z80 program        |
| 132.28 | TRACER .DOC  | 2K   | F1 71 | /                                     |
| 132.29 | WRITNUM .COM | 9K   | B6 C0 | writes up to \$9,999.99               |
| 132.30 | WRITNUM .PAS | 3K   | A6 B8 | /                                     |
| 132.31 | ZDUMP .COM   | 9K   | 10 94 | dump program with a variety of        |
| 132.32 | ZDUMP .PAS   | 6K   | C9 75 | options                               |

SIG-M Library -CATALOG Volume Number-132, 32 Files cataloged.

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SIG/M Volume 133 PASCAL Z USERS GROUP VOL 25

-CATALOG.133 contents of SIG/M Volume 133  
released September 9, 1983

ABSTRACT.133 information regarding this disk  
CRC .COM checksum program  
SIG/M .LIB disk donation form

| index  | name          | size | crc   | description                           |
|--------|---------------|------|-------|---------------------------------------|
| 133.01 | METRICS .COM  | 24K  | C7 8A | converts metrics                      |
| 133.02 | METRICS .PAS  | 15K  | A7 D8 | /                                     |
| 133.03 | BASICOPS.PAS  | 23K  | FC BC | extended precision floating point     |
| 133.04 | BYTEOPS .REL  | 1K   | EA 53 | /                                     |
| 133.05 | BYTEOPS .SRC  | 8K   | D5 70 | /                                     |
| 133.06 | FLPTCONS.PAS  | 1K   | 0A A5 | /                                     |
| 133.07 | FLPTDEMO.COM  | 28K  | F5 29 | /                                     |
| 133.08 | FLPTDEMO.PAS  | 3K   | BA 76 | /                                     |
| 133.09 | FLPTTEXT .PAS | 2K   | DC CA | /                                     |
| 133.10 | FLPTPACK.DOC  | 7K   | 19 19 | /                                     |
| 133.11 | FLPTTYPE.PAS  | 1K   | F0 DE | /                                     |
| 133.12 | FLPTVAR .PAS  | 1K   | ED D2 | /                                     |
| 133.13 | EDITFEED.COM  | 19K  | AB 79 | designs a balanced cattle feed ration |
| 133.14 | EDITFEED.PAS  | 5K   | A2 42 | /                                     |
| 133.15 | EDITFILE.COM  | 16K  | 76 F3 | /                                     |
| 133.16 | EDITFILE.PAS  | 9K   | DA 69 | /                                     |
| 133.17 | FEED .DAT     | 5K   | E8 5F | /                                     |
| 133.18 | FEEDLOT .DOC  | 11K  | AA FD | /                                     |
| 133.19 | BUILDF .PAS   | 4K   | 51 1A | /                                     |
| 133.20 | INITIAL .PAS  | 2K   | D2 60 | /                                     |
| 133.21 | LINEAR .COM   | 24K  | 5B 2B | /                                     |
| 133.22 | LINEAR .PAS   | 8K   | CF FC | /                                     |
| 133.23 | LINTTEST .DAT | 2K   | 0D B4 | /                                     |
| 133.24 | MODIFYF .PAS  | 4K   | 1B 49 | /                                     |
| 133.25 | PRINT .PAS    | 2K   | 27 9E | /                                     |

SIG-M Library -CATALOG Volume Number-133, 25 Files cataloged.

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SIG/M Volume 134 PASCAL Z USERS GROUP VOL 26

-CATALOG.134 contents of SIG/M Volume 134  
released September 9, 1983

ABSTRACT.134 information regarding this disk

| index  | name          | size | crc   | description                       |
|--------|---------------|------|-------|-----------------------------------|
| 134.01 | ANIMALS .COM  | 26K  | 5F 95 | animal guessing game without      |
| 134.02 | ANIMALS .PAS  | 41K  | 80 90 | prior "bugs"                      |
| 134.03 | BEASTS .QQQ   | 1K   | 8D 23 |                                   |
| 134.04 | BEASTS .QQX   | 1K   | F7 EC |                                   |
| 134.05 | BINTOHEX.PAS  | 2K   | 85 3F | converts binary to hex            |
| 134.06 | HEXTOBIN.PAS  | 3K   | E9 0D | /                                 |
| 134.07 | CHECKS .COM   | 9K   | 82 A9 | checkbook program                 |
| 134.08 | CHECKS .DOC   | 20K  | 08 04 | /                                 |
| 134.09 | CHECKS .Z80   | 53K  | FA 24 | /                                 |
| 134.10 | EXAMPL .CHK   | 1K   | EE B3 | /                                 |
| 134.11 | EXAMPL .DOC   | 6K   | F6 94 | /                                 |
| 134.12 | EXAMPL .NAM   | 2K   | 9A 80 | /                                 |
| 134.13 | CLEAN .PAS    | 9K   | 67 7F | filters characters to printer     |
| 134.14 | CLEANPRT.PAS  | 5K   | BF 87 | /                                 |
| 134.15 | MACRO .SRC    | 4K   | B8 2D | collection of macros              |
| 134.16 | DRVCHK .PAS   | 2K   | D6 4F | procedure to check filename drive |
| 134.17 | GETFILES.PAS  | 2K   | 09 84 | procedure to get files            |
| 134.18 | CONVERT .DOC  | 2K   | 74 EA | converts numbers between string   |
| 134.19 | GLOBALS .INT  | 1K   | 3F DD | and real and integers to string   |
| 134.20 | GLOBALS .RN\$ | 2K   | 85 49 | /                                 |
| 134.21 | PASZCODE.INT  | 4K   | B1 66 | /                                 |
| 134.22 | PASZCODE.RN\$ | 10K  | DE 78 | /                                 |
| 134.23 | PROFILE .REL  | 1K   | 48 EB | Hipad routine to fill array       |
| 134.24 | PROFILE .SRC  | 8K   | DC 32 | /                                 |
| 134.25 | TP .PAS       | 1K   | 71 CF | /                                 |
| 134.26 | TRIGLIB .PAS  | 4K   | D8 0B | seven trig functions              |
| 134.27 | TSTAN2 .COM   | 14K  | 17 06 | converts regression coefficient   |
| 134.28 | TSTAN2 .PAS   | 1K   | DA F5 | to slope angle                    |

SIG-M Library -CATALOG Volume Number-134, 28 Files cataloged.

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SIG/M Volume 135 SOFTWARE TOOLS OF AUSTRALIA - VOL 17  
CP/M utilities and misc. programs

-CATALOG.135 contents of SIG/M Volume 135  
released September 1, 1983

CRC .COM checksum program  
SIG/M .LIB disk donation form

| index  | name         | size | crc   | description                                 |
|--------|--------------|------|-------|---------------------------------------------|
| 135.01 | DIR-DUMP.ASM | 8K   | 42 F2 | Displays disk directory formatted           |
| 135.02 | DIR-DUMP.DOC | 2K   | C9 83 | for 64 col. screen                          |
| 135.03 | DIR-DUMP.OBJ | 1K   | E6 7A | /                                           |
| 135.04 | EXTCOM1.ASM  | 5K   | D8 24 | Exit from CP/M to comms program (8251 UART) |
| 135.05 | INF .MAC     | 14K  | AD 16 | Comprehensive disk format display           |
| 135.06 | INF .OBJ     | 2K   | 7E A3 | /                                           |
| 135.07 | ITOH5000.ASM | 8K   | AC E8 | Graphics driver for C.Itoh 8010             |
| 135.08 | LD1 .C       | 8K   | 1F 9C | Loader for machine language programs        |
| 135.09 | LOCK .DOC    | 2K   | 71 59 | 'Locks' program for security                |
| 135.10 | LOCK .OBJ    | 11K  | 6B 39 | /                                           |
| 135.11 | LOCK .WPF    | 11K  | 2F FB | /                                           |
| 135.16 | MKEY .OBJ    | 1K   | BB 59 | /                                           |
| 135.17 | MKEY .WPF    | 5K   | EB 67 | /                                           |
| 135.32 | UNLOCK .OBJ  | 11K  | 41 C1 | /                                           |
| 135.33 | UNLOCK .WPF  | 12K  | B8 34 | /                                           |
| 135.12 | LPR .CQ      | 6K   | 2F 6F | Printer program - currently set for Epson   |
| 135.13 | LPR .OBJ     | 14K  | B6 16 | /                                           |
| 135.14 | MFT50 .ASM   | 27K  | B9 CE | Multiple file transfer program              |
| 135.15 | MFT50 .OBJ   | 3K   | 97 B2 | /                                           |
| 135.18 | PCAT .BAS    | 6K   | 1C 42 | Hardcopy catalog in master catalog system   |
| 135.19 | POKER .BAS   | 12K  | 96 C6 | Beats you every time                        |
| 135.20 | RELOC .CQ    | 6K   | E2 59 | Move a program to top of TPA and run it     |
| 135.21 | RELOC .DQC   | 19K  | 12 6F | /                                           |
| 135.22 | RELOC .MQC   | 7K   | 05 E9 | /                                           |
| 135.23 | RELOC .OBJ   | 10K  | CF EC | /                                           |
| 135.24 | RELOC .REL   | 1K   | 38 3D | /                                           |
| 135.25 | RELOC .SUB   | 1K   | BF 72 | /                                           |
| 135.26 | RELOC .TXT   | 2K   | 6A 14 | /                                           |
| 135.27 | SPR2 .OBJ    | 1K   | 07 EA | /                                           |
| 135.28 | SRP1 .OBJ    | 1K   | 2E 47 | /                                           |
| 135.29 | TEST .SUB    | 1K   | B1 DC | /                                           |
| 135.30 | TEST1 .MQC   | 4K   | C3 D9 | /                                           |
| 135.31 | TEST2 .MQC   | 2K   | 8C CF | /                                           |
| 135.34 | WPF .C       | 2K   | 09 34 | Translate .WPF files to conventional        |
| 135.35 | WPF .OBJ     | 6K   | 9D AD | format                                      |

SIG-M Library -CATALOG Volume Number-135, 35 Files cataloged.

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SIG/M      Volume 139      MODEM UPDATE - MODEM 712

-CATALOG.139      contents of SIG/M Volume 139  
released      October 7, 1983

CRC      .COM      checksum program  
SIG/M      .LIB      disk donation form  
USQ      .COM      unsqueeze .?Q? files

| index  | name         | size | crc   | description                |
|--------|--------------|------|-------|----------------------------|
| 139.01 | MDM712 .IQF  | 4K   | C1 FC | Latest version of MDM7xx   |
| 139.02 | MDM712 .LBR  | 204K | 20 6D | /                          |
| 139.03 | MDM712 .TXT  | 3K   | 9C 54 | /                          |
| 139.04 | MDM712 .UQD  | 4K   | C8 D0 | /                          |
| 139.05 | UN .COM      | 5K   | 6B 74 | Recovers Basic-80 programs |
| 139.06 | UN-PROT .BAS | 2K   | 91 35 | Fix for Apple for UN.COM   |

SIG-M Library -CATALOG Volume Number-139, 06 Files cataloged.

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SIG/M Volume 140 Cross Assemblers and Misc. Utilities  
Software Tools of Australia Extracts

-CATALOG.140 contents of SIG/M Volume 140  
released October 7, 1983

CRC .COM checksum program  
SIG/M .LIB disk donation form

| index  | name         | size | crc   | description                                 |
|--------|--------------|------|-------|---------------------------------------------|
| 140.01 | 68KASM .FQR  | 42K  | 84 DD | 68000 Cross assembler from Dr. Dobbs        |
| 140.02 | 68KASM .MQC  | 7K   | 95 3F | /                                           |
| 140.03 | CPU .ASM     | 4K   | 7E 09 | Faster BDSC for 8085                        |
| 140.04 | SPEEDUP .C   | 7K   | 02 47 | /                                           |
| 140.05 | ERROR .FOR   | 2K   | D1 1A | Fortran-80 command switches & error codes   |
| 140.06 | EXORCOPY.C   | 12K  | AE A5 | MOTOROLA mdos to CP/M data exchange utility |
| 140.07 | FILENAME.FQR | 2K   | 50 6A | Fortran filename parser (German comments)   |
| 140.08 | M6805 .LIB   | 8K   | 55 29 | Macro Lib. of MOTOROLA MC6805 opcodes       |
| 140.09 | REMAKE .PLI  | 5K   | 5A 67 | Compiler manager                            |
| 140.10 | OPCODES .    | 2K   | 28 F0 | MOTOROLA 6800 cross assembler               |
| 140.11 | EXBUG3 .SYM  | 1K   | 7A 56 | /                                           |
| 140.11 | SEG1X68 .C   | 17K  | 1B E7 | /                                           |
| 140.12 | SEG1X68 .OVL | 6K   | B8 83 | /                                           |
| 140.13 | SEG2X68 .C   | 10K  | 5B 68 | /                                           |
| 140.14 | SEG2X68 .OVL | 5K   | 73 4A | /                                           |
| 140.17 | X68 .C2      | 17K  | C4 12 | /                                           |
| 140.18 | X68 .H       | 5K   | 59 84 | /                                           |
| 140.19 | X68 .OBJ     | 15K  | 1C B6 | /                                           |
| 140.15 | SIMLT .FQR   | 8K   | 6D E9 | Solves simultaneous equations in fortran    |
| 140.20 | XTCPM141.AQM | 26K  | A7 0A | Method to extend CP/M 2.2 system            |
| 140.21 | XTCPM141.DQC | 2K   | A9 0E | /                                           |
| 140.22 | Z80DISK .DOC | 4K   | 5E 0B | Z80 Disk diagnostic, Dr. Dobbs April 1981   |
| 140.23 | Z80DISK .MAC | 23K  | BF 13 | /                                           |
| 140.24 | Z80DISK .OBJ | 3K   | 03 12 | /                                           |

SIG-M Library -CATALOG Volume Number-140, 24 Files cataloged.

NOTE: Use USQ.COM on SIG/M Volume 60 (as well as other SIG/M Volumes) to  
unsqueeze .?Q? files.

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SIG/M Volume 142 Games from Software Tools of Australia  
 Extracted from recent releases

-CATALOG.142 contents of SIG/M Volume 142  
 released October 7, 1983

CRC .COM checksum program  
 SIG/M .LIB disk donation form  
 USQ .COM unsqueeze .?Q? files

| index  | name         | size | crc   | description                               |
|--------|--------------|------|-------|-------------------------------------------|
| 142.01 | ALMAZAR .BAS | 2K   | C2 29 | Adventure game from Micro-80              |
| 142.02 | ALMAZAR .DOC | 2K   | 0F D5 | /                                         |
| 142.03 | SFA/SAV .0   | 1K   | AF A4 | /                                         |
| 142.04 | SFALDES .0   | 9K   | 1E 34 | /                                         |
| 142.05 | SFALDES .BAS | 7K   | 01 C9 | /                                         |
| 142.06 | SFAMAIN .BAS | 15K  | 53 04 | /                                         |
| 142.07 | SFAMOVE .0   | 2K   | 53 F7 | /                                         |
| 142.08 | SFAMOVE .BAS | 2K   | 15 3F | /                                         |
| 142.09 | SFAOBDES.0   | 2K   | 02 30 | /                                         |
| 142.10 | SFAOBDES.BAS | 2K   | 1B 7A | /                                         |
| 142.11 | SFARESP .0   | 13K  | FE 3E | /                                         |
| 142.12 | SFARESP .BAS | 5K   | 17 7A | /                                         |
| 142.13 | SFAVOC .0    | 1K   | DC 8C | /                                         |
| 142.14 | SFAVOC .BAS  | 1K   | 9A 37 | /                                         |
| 142.15 | AUSOPOLY.BAS | 28K  | 57 26 | English/Australian of CPMUG game          |
| 142.16 | BACARRAT.BAS | 4K   | F4 49 | Osborne MBASIC game                       |
| 142.17 | BANNER .Z80  | 19K  | 70 61 | Prints banner to console & printer        |
| 142.18 | BLAKJACK.BAS | 12K  | 87 37 | Osborne MBASIC game                       |
| 142.19 | FOGASM .ASM  | 1K   | 50 05 | Calculates number of years of schooling   |
| 142.20 | FOGINDEX.PLI | 3K   | 33 A4 | required to read a document               |
| 142.21 | GOLDMINE.BAS | 8K   | 65 27 | MBASIC game                               |
| 142.22 | KPRO2-SW.BAS | 10K  | 28 F7 | Spacewar game for Kaypro 2, MBASIC        |
| 142.23 | MAKEADV .BQS | 6K   | 5B 93 | Make your own Adventure                   |
| 142.24 | SAMPADV .AQV | 8K   | 05 A0 | /                                         |
| 142.25 | SAMPADV .MQC | 9K   | E8 3C | /                                         |
| 142.26 | OZDOT .BAS   | 8K   | E2 0B | Osborne version of DOTS                   |
| 142.27 | PACMAN .ASM  | 4K   | 2C C4 | PACMAN game for cursor addressable        |
| 142.28 | PACMAN .DAT  | 4K   | 34 64 | terminals                                 |
| 142.29 | PACMAN .OBJ  | 16K  | 86 A2 | /                                         |
| 142.30 | SPACEWAR.BAS | 11K  | FB 00 | Osborne MBASIC game                       |
| 142.31 | YKW1 .BAS    | 2K   | E4 6B | "My other computer is an IBM" for Osborne |
| 142.32 | YKW2 .BAS    | 2K   | 74 5F | "My other computer is an IBM" for ADM-31  |

SIG-M Library -CATALOG Volume Number-142, 32 Files cataloged.

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SIG/M Volume 143 Packet Radio, Printer Utilities, etc  
Software Tools of Australia (extracts)

-CATALOG.143 contents of SIG/M Volume 143  
released October 7, 1983

USQ .COM unsqueeze program  
CRC .COM checksum program  
SIG/M .LIB disk donation form

| index  | name         | size | crc   | description                                 |
|--------|--------------|------|-------|---------------------------------------------|
| 143.01 | ATTEN .BAS   | 3K   | 74 9F | Electronic attenuator design utility        |
| 143.02 | DEPREC .BAS  | 3K   | EC 45 | Depreciation schedult                       |
| 143.03 | GENINDEX.OBJ | 20K  | 09 A0 | Generates index for WordStar text file      |
| 143.04 | GENINDEX.PAS | 12K  | F0 96 | /                                           |
| 143.05 | INDEX .PAS   | 1K   | 12 D6 | /                                           |
| 143.06 | INDEX101.DOC | 5K   | 67 05 | WordStar indexing utility                   |
| 143.07 | INDEX101.OBJ | 11K  | 41 14 | /                                           |
| 143.08 | LPR .C       | 9K   | F0 EB | Print program for MX80, wildcard names      |
| 143.09 | LPR .OBJ     | 14K  | B6 16 | & clock                                     |
| 143.10 | DGPTR .PQS   | 7K   | FE 08 | Packet Radio Software for CP/M Systems      |
| 143.11 | PACKET .AQM  | 25K  | 98 C9 | /                                           |
| 143.12 | PACKET .DOC  | 6K   | 05 2A | /                                           |
| 143.13 | PACKET .RPT  | 12K  | 3A 64 | /                                           |
| 143.14 | PACKET-0.DOC | 3K   | A2 CC | /                                           |
| 143.15 | PACKET2 .TXT | 14K  | 0D 18 | /                                           |
| 143.16 | PACKETCF.TQT | 15K  | 8A 6D | /                                           |
| 143.17 | PRINTER .INF | 2K   | 91 28 | Control codes for EPSON MX80 printer        |
| 143.18 | RDRPUN .MAC  | 1K   | 13 85 | FORTTRAN routine to access CP/M RDR and PUN |
| 143.19 | RESXIOS .AQM | 13K  | F1 9E | Example of MP/M 2 Resident XIOS             |
| 143.20 | SETMX .AQM   | 4K   | 98 BA | Epson MX80 printer setup utility            |
| 143.21 | SETMX .DOC   | 2K   | D3 3B | /                                           |
| 143.22 | SETOK .ASM   | 6K   | 7E C4 | Okidata printer setup utility               |
| 143.23 | SETOK .DOC   | 2K   | 01 10 | /                                           |
| 143.24 | VIDEO .INF   | 3K   | 34 D9 | Video terminal codes                        |
| 143.25 | VIDEONEW.INF | 13K  | D1 C6 | /                                           |

SIG-M Library -CATALOG Volume Number-143, 25 Files cataloged.

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SIG/M Volume 144 Miscellaneous Programs  
Software Tools of Australia and others

-CATALOG.144 contents of SIG/M Volume 144  
released October 7, 1983

CRC .COM checksum program  
SIG/M .LIB disk donation form  
USQ .COM unsqueeze program

| index  | name         | size | crc   | description                               |
|--------|--------------|------|-------|-------------------------------------------|
| 144.01 | GRAPH .REL   | 1K   | 49 C2 | Graph subroutines for Epson MX80          |
| 144.02 | GRAPH .ZQ0   | 11K  | 12 04 | /                                         |
| 144.03 | IZ .CQM      | 22K  | 4D A4 | Intel to Zilog mnemonic source            |
| 144.04 | IZ .DQC      | 11K  | 92 EA | code translator                           |
| 144.05 | IZ .DQT      | 7K   | C1 83 | /                                         |
| 144.07 | IZ .PQS      | 14K  | 2A 9C | /                                         |
| 144.07 | MAKEFILE.ASM | 6K   | B6 39 | Builds a dummy file with marked blocks    |
| 144.08 | MAKEFILE.COM | 2K   | FD 0E | /                                         |
| 144.09 | NESTING .C   | 1K   | 10 C6 | Notes on nesting in BDS C from version    |
| 144.10 | NESTING .NOT | 3K   | AD F7 | 1.45a                                     |
| 144.11 | PMDLALDS.FRQ | 13K  | 89 52 | Autodialing with PMMI                     |
| 144.12 | RENAME .C    | 8K   | A2 FF | Wildcard rename utility                   |
| 144.13 | RENAME .DOC  | 4K   | 0F 96 | /                                         |
| 144.14 | RENAME .OBJ  | 10K  | A0 8B | /                                         |
| 144.15 | BDOS .H      | 1K   | B1 07 | /                                         |
| 144.16 | SETBOOT .MAC | 19K  | 6B B7 | Osborne 1 boot                            |
| 144.17 | SQ .CQ       | 8K   | AC 51 | Update to squeeze, wildcards and other    |
| 144.18 | SQ .H        | 2K   | 10 97 | features                                  |
| 144.19 | SQ .OBJ      | 17K  | 66 FE | /                                         |
| 144.20 | SQ15A .DOC   | 2K   | 29 77 | /                                         |
| 144.21 | SQ15A .SUB   | 1K   | 37 E4 | /                                         |
| 144.22 | SQCOM .H     | 1K   | 3E 8E | /                                         |
| 144.23 | ID .C        | 1K   | 75 6A | /                                         |
| 144.24 | LONG .CQ     | 2K   | 66 0B | /                                         |
| 144.25 | TR1 .CQ      | 2K   | 10 74 | /                                         |
| 144.26 | TR2 .CQ      | 9K   | BF 25 | /                                         |
| 144.27 | UCSD2CPM.C   | 16K  | B4 5A | Text transfer UCSD formatted disk to CP/M |
| 144.28 | UCSDIR .C    | 10K  | EF E4 | List directory of UCSD Pascal disk        |
| 144.29 | UCSDTYPE.C   | 15K  | A0 5C | Text transfer UCSD dir to CP/M console    |

SIG-M Library -CATALOG Volume Number-144, 29 Files cataloged.

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SIG/M Vol 145 VFILER - A SCREEN ORIENTED FILE MANIPULATION UTILITY  
by Richard Conn

-CATALOG.145 contents of SIG/M Volume 145  
released October 7, 1983

CRC .COM checksum program  
JOIN .ACG ACGNJ membership application  
SIG/M .LIB disk donation form

| index  | name         | size | crc   | description                               |
|--------|--------------|------|-------|-------------------------------------------|
| 145.01 | BISHOW-2.A86 | 9K   | 7A EB | Bidirectional show - a paging program     |
| 145.02 | BISHOW-2.ASM | 10K  | 0E 1D | in both CP/M 80 and CP/M 86               |
| 145.03 | BISHOW-2.CMD | 2K   | C6 40 | /                                         |
| 145.04 | BISHOW-2.COM | 1K   | DC DB | /                                         |
| 145.05 | SAVEMUNY.DOC | 2K   | C0 3C | Tips on adapting Heath programs           |
| 145.06 | SD-48B .ASM  | 66K  | 35 86 | SD with HELP and WordStar fix             |
| 145.07 | SD-48B .COM  | 4K   | DA 16 | /                                         |
| 145.08 | SD1 .A86     | 16K  | 2F 5C | SD for CP/M 86 with technical adjustments |
| 145.09 | SD1 .CMD     | 3K   | 43 70 | /                                         |
| 145.10 | VFILER .ASM  | 84K  | CB AE | A screen oriented file manipulation       |
| 145.11 | VFILER .DOC  | 2K   | EA 81 | utility adjusted for your terminal.       |
| 145.12 | VFILERB .COM | 8K   | 93 88 | Move arrow through directory for action.  |
| 145.13 | VFILERSC.ASM | 3K   | F6 07 | Integrates with ZCPR2 or stands alone.    |
| 145.14 | VFILERZ .COM | 8K   | 5B 1D | /                                         |

SIG-M Library -CATALOG Volume Number-145, 14 Files cataloged.

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SIG/M      Volume 148      Pascal Z Users Group Volume 027

-CATALOG.148      contents of SIG/M Volume 148  
released      November 4, 1983

ABSTRACT.148      information regarding volume  
SIG/M      .LIB      Donation form  
CRC      .COM      checksum program

| index  | name         | size | crc   | description                 |
|--------|--------------|------|-------|-----------------------------|
| 148.01 | BIOSIN .PAS  | 9K   | 45 29 | Calendar program            |
| 148.02 | ERASE .COM   | 8K   | 8B 97 | 'User friendly' erase       |
| 148.03 | ERASE .PAS   | 6K   | D3 A2 | /                           |
| 148.04 | INITLISP.    | 1K   | 62 14 | Updated Lisp in Pascal      |
| 148.05 | INITLISP.STB | 1K   | F9 1E | /                           |
| 148.06 | LISP .COM    | 27K  | C6 3B | /                           |
| 148.07 | LISP .DOC    | 14K  | 65 23 | /                           |
| 148.08 | LISP .PAS    | 38K  | 32 A1 | /                           |
| 148.09 | PRIME .COM   | 20K  | F3 46 | Illustration of public-key  |
| 148.10 | PRIME .DOC   | 4K   | 02 6B | cryptography                |
| 148.11 | PRIME .PAS   | 3K   | 1C 3D | /                           |
| 148.12 | PRIME .TXT   | 3K   | 0B 7A | /                           |
| 148.13 | PRIME1 .PAS  | 3K   | 55 CE | /                           |
| 148.14 | RNDKNUTH.LIB | 7K   | AD 1E | Random numbers library file |
| 148.15 | SIGNS .DOC   | 4K   | E5 63 | Formatting program for both |
| 148.16 | SIGNS .PAS   | 6K   | 7F 7F | 80 and 132 col printers     |
| 148.17 | SIGNS .TXT   | 4K   | 55 13 | /                           |
| 148.18 | SIGNS11 .COM | 10K  | 50 6C | /                           |
| 148.19 | SIGNS6 .COM  | 10K  | 59 CA | /                           |
| 148.20 | FONT .DAT    | 1K   | 45 1C | /                           |
| 148.21 | STUDENT2.COM | 19K  | 01 80 | Updated Student program     |
| 148.22 | STUDENT2.PAS | 23K  | 1C 37 | /                           |
| 148.23 | TUTOR .PRN   | 9K   | DF 95 | /                           |

SIG-M Library -CATALOG Volume Number-148, 23 Files cataloged.

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SIG/M Volume 152 Disk Drive Tester, Miscellaneous Updates

-CATALOG.152 contents of SIG/M Volume 152  
released December 2, 1983

CRC .COM checksum program  
JOIN .ACG Amateur Computer Group membership application  
SIG/M .LIB donation form  
USQ .COM program to unsqueeze squeezed files

| index  | name         | size | crc   | description                                |
|--------|--------------|------|-------|--------------------------------------------|
| 152.01 | APLCAT94.LBR | 39K  | 5B B9 | Apple CAT II modem                         |
| 152.02 | DDD11 .ASM   | 47K  | 6E 94 | Tests disk drives with 1793 controller and |
| 152.03 | DDD11 .DOC   | 4K   | 97 DF | Dysan test disk - without oscilloscope     |
| 152.04 | DU-V86 .COM  | 8K   | 88 A0 | Updated disk utility                       |
| 152.05 | DU-V86 .DOC  | 13K  | 54 3C | /                                          |
| 152.06 | LADDER .MF4  | 5K   | ED 20 | Analysis of ladder network for gain        |
| 152.07 | LADDER .OBJ  | 12K  | A6 A9 | and phase.                                 |
| 152.08 | LDIR211 .LBR | 16K  | A8 E5 | Updates LDIR                               |
| 152.09 | NSWP .COM    | 7K   | 44 10 | Big and little versions of WASH            |
| 152.10 | SWEEP40 .LBR | 42K  | 55 4B | /                                          |
| 152.11 | TYPE1 .COM   | 2K   | 56 FB | Wildcard type - unsqueezes too             |
| 152.12 | TYPE1 .DOC   | 3K   | 9A 91 | /                                          |
| 152.13 | USQ .COM     | 2K   | 56 21 | Wildcard unsqueeze                         |
| 152.14 | USQ .DOC     | 3K   | 85 5A | /                                          |
| 152.15 | WOOF .COM    | 16K  | 9F BA | Plots frequency response of loudspeaker    |
| 152.16 | WOOF .FOR    | 7K   | 84 D3 | enclosure                                  |

SIG-M Library -CATALOG Volume Number-152, 16 Files cataloged.

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SIG/M Volume 154 Forth-83

-CATALOG.154 contents of SIG/M Volume 154  
released January 6, 1983

ABSTRACT.154 explains how to use this disk  
JOIN .ACG ACGNJ membership application  
SIG/M .LIB software donation form  
CRC .COM checksum program - type 'CRC' to validate disk  
USD .COM program to unsqueeze squeezed files - wildcard version

| index  | name         | size | crc   | description                                |
|--------|--------------|------|-------|--------------------------------------------|
| 154.01 | F83 .COM     | 24K  | A1 A8 | Compiled Forth with editor, assembler, etc |
| 154.02 | F83 .DOC     | 9K   | 80 88 | Documentation file                         |
| 154.03 | CPU8080 .BQK | 9K   | 03 D2 | Assembler, debugging & multitasking source |
| 154.04 | DIRECT .BQK  | 4K   | D1 D7 | Support screens for direct BIOS I/O        |
| 154.05 | EXTEND80.BQK | 9K   | 66 C2 | Extension screens                          |
| 154.06 | KERNEL .HEX  | 33K  | 47 82 | Hex file for F83                           |
| 154.07 | METAB0 .BQK  | 73K  | CF A9 | Meta source & F83 screens                  |
| 154.08 | UTILITY .BQK | 36K  | FF 46 | CP/M interface, editor & multitasking      |

SIG-M Library -CATALOG Volume Number-154, 08 Files cataloged.

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SIG/M Volume 155 dBASEII (TM) Programs and Information  
including Atlanta Data Base Users Soc. Vol I

-CATALOG.155 contents of SIG/M Volume 155  
released January 6, 1983

ABSTRACT.155 explains this disk and how to use it  
SIG/M .LIB software donation form  
JOIN .ACG ACGNJ membership application  
CRC .COM checksum program - type 'CRC' to validate disk

| index  | name         | size | crc   | description                    |
|--------|--------------|------|-------|--------------------------------|
| 155.01 | ADBUG .CMD   | 5K   | AD 8C | Atlanta Data Base Users Group  |
| 155.02 | ADBUG/1 .DBF | 1K   | B1 0E | Letter Mailing and Member Data |
| 155.03 | ADD/REC .CMD | 6K   | 2C 19 | Records System                 |
| 155.04 | FORM/LTR.CMD | 4K   | B1 B7 | /                              |
| 155.05 | FORM/PRT.CMD | 7K   | 50 5D | /                              |
| 155.06 | LABELPRT.CMD | 4K   | 86 78 | /                              |
| 155.07 | LETTER00.CMD | 4K   | 44 E7 | /                              |
| 155.08 | LIST/PRT.CMD | 5K   | 1B BF | /                              |
| 155.09 | MAIL/LAB.CMD | 3K   | 80 BB | /                              |
| 155.10 | XBALANCE.CMD | 5K   | 1D 52 | Atlanta Data Base Users        |
| 155.11 | XCANCEL .CMD | 4K   | E0 39 | Society Banking System         |
| 155.12 | XDEPCANC.CMD | 3K   | 15 7C | /                              |
| 155.13 | XDEPOSIT.CMD | 3K   | 9A 8B | /                              |
| 155.14 | XINDEX .CMD  | 4K   | AA 9E | /                              |
| 155.15 | XMENU .CMD   | 3K   | 2B BE | /                              |
| 155.16 | XMODCKS .CMD | 6K   | 5E 86 | /                              |
| 155.17 | XMODDEP .CMD | 3K   | BD 1B | /                              |
| 155.18 | XNEWENTR.CMD | 4K   | 77 36 | /                              |
| 155.19 | XPRNT .SUB   | 1K   | 07 CA | /                              |
| 155.20 | XPRNTCK .CMD | 8K   | B7 69 | /                              |
| 155.21 | XSYSTEM .DOC | 6K   | 4E 59 | /                              |
| 155.22 | ABUSBANK.DBF | 1K   | 0D 92 | /                              |
| 155.23 | CKNUM .NDX   | 1K   | 2C 89 | /                              |
| 155.24 | OFFBASE .CMD | 2K   | CF 46 | Atlanta Data Base Users        |
| 155.25 | SAM001 .CMD  | 4K   | 27 03 | Society Sample Periodical      |
| 155.26 | SAM001 .DOC  | 23K  | C7 92 | Tracking Data Base System      |
| 155.27 | SAM002 .CMD  | 4K   | 12 14 | /                              |
| 155.28 | SAM002 .DOC  | 25K  | 41 68 | /                              |
| 155.29 | SAMAKEY .NDX | 2K   | F7 F0 | /                              |
| 155.30 | SAMFILE .DBF | 2K   | C6 2B | /                              |
| 155.31 | SAMMENU .CMD | 3K   | 94 DD | /                              |
| 155.32 | SAMMENU .DOC | 15K  | B7 B6 | /                              |
| 155.33 | SAMSCR1 .CMD | 3K   | 32 C1 | /                              |
| 155.34 | SAMSCR2 .CMD | 1K   | C5 3E | /                              |
| 155.35 | UPDATE .129  | 3K   | 67 DB | Updating files and information |
| 155.36 | MAIN .INV    | 4K   | F6 BC | for dBASEII version 2.4 and    |
| 155.37 | MAIN .SIG    | 6K   | BC 8A | SIG/M Vol. 129                 |
| 155.38 | MENU .SIG    | 2K   | E3 CE | /                              |
| 155.39 | SIG/M .CMD   | 10K  | 99 C3 | /                              |
| 155.40 | DBOX .ART    | 4K   | 4F 7F | Dual Data Bases and dBASEII    |
| 155.41 | VALDATE .TST | 3K   | 3D 15 | dBASE date validation program  |

SIG-M Library -CATALOG Volume Number-155, 41 Files cataloged.

SIG/M Volume 156 Miscellaneous Z80 and 8080 Programs

-CATALOG.156 contents of SIG/M Volume 156  
released January 6, 1983

JOIN .ACG ACGNJ membership application  
SIG/M .LIB software donation form  
CRC .COM checksum program - type 'CRC' to validate disk  
USQ .COM program to unsqueeze squeezed files

| index  | name         | size | crc   | description                          |
|--------|--------------|------|-------|--------------------------------------|
| 156.01 | 1771 .LBR    | 62K  | EE 54 | Extended SD storage for 1771 systems |
| 156.02 | FIND40 .LBR  | 14K  | 2B 66 | Updated FIND                         |
| 156.03 | LU301 .COM   | 19K  | BA 32 | Updated library utility              |
| 156.04 | LU301 .TXT   | 2K   | AA B4 | /                                    |
| 156.05 | LUX12B .LBR  | 87K  | 45 64 | Z80 utility for library files        |
| 156.06 | M712TRS .AQM | 8K   | 91 C0 | Modem for TRS-80 Models 2, 12 & 16   |
| 156.07 | SQ-17 .LBR   | 24K  | 4A 5A | Updated squeeze program              |
| 156.08 | XM77TRS .AQM | 6K   | AE 82 | Xmodem for TRS-80 Models 2, 12 & 16  |

SIG-M Library -CATALOG Volume Number-156, 08 Files cataloged.

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SIG/M      Volume 160      CROSS REFERENCE, ERASE, APPLE II FROM TORONTO RCP/M  
TIME STAMP PROGRAM by A.I. Larky

-CATALOG.160      contents of SIG/M Volume 160  
released      February 3, 1984

LU      .COM      Library Utility for .LBR files  
USQ      .COM      Unsqueeze Squeezed Files  
TYPE1      .COM      Type contents of .LBR files  
JOIN      .ACG      Amateur Computer Group Application Form  
SIG/M      .LIB      donation form  
CRC      .COM      checksum program

| Index  | Name         | Size | crc   | description                              |
|--------|--------------|------|-------|------------------------------------------|
| 160.01 | APLVIDEX.LBR | 13k  | 2C DF | speeds controle on Apple with Videx card |
| 160.02 | SPRITE .LBR  | 16k  | D1 A9 | for TI Sprite Chip TMS9918 on Apple.     |
| 160.03 | STAMP .LBR   | 95k  | 2B AC | time Stamp your files                    |
| 160.04 | XERA .LBR    | 11k  | 75 D6 | extended erase                           |
| 160.05 | XREF36 .LBR  | 62k  | 5F A8 | create cross reference form .PRN files   |

SIG-M Library -CATALOG Volume Number-160, 05 Files cataloged.

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SIG/M      Volume 162      Concurrent Pascal-S Compiler  
                                  PL/O Compiler

             -CATALOG.162      contents of SIG/M Volume 162  
                                  released      February 3, 1984

             JOIN      .ACG      Amateur Computer Group Application Form  
              SIG/M      .LIB      donation form  
              CRC      .COM      checksum program

| Index  | Name         | Size | crc   | description                        |
|--------|--------------|------|-------|------------------------------------|
| 162.01 | BOUNDED .CCP | 1k   | 6A A2 | bounder buffer problem, in ccp     |
| 162.02 | CCP .001     | 3k   | 98 CB | init overlay                       |
| 162.03 | CCP .002     | 22k  | F8 E1 | compiler overlay                   |
| 162.04 | CCP .003     | 15k  | 79 BA | interpreter                        |
| 162.05 | CCP .COM     | 8k   | 2C 90 | root .COM file                     |
| 162.06 | CCP .DOC     | 6k   | 3F 56 | read first                         |
| 162.07 | CCP .ERL     | 2k   | C9 3E |                                    |
| 162.08 | CCP .PAS     | 7k   | 05 5E | root source file                   |
| 162.09 | CCP .SYM     | 2k   | 07 5A |                                    |
| 162.10 | COMPILE .ERL | 23k  | 59 40 |                                    |
| 162.11 | COMPILE .PAS | 36k  | B7 E2 | compiler overlay source            |
| 162.12 | DINPHIL .CCP | 2k   | 14 45 | dining philosophers problem        |
| 162.13 | GLOBAL .INC  | 2k   | 7C 84 | global declarations - include file |
| 162.14 | INIT .ERL    | 3k   | 1A F7 |                                    |
| 162.15 | INIT .PAS    | 4k   | EC D6 | init overlay source                |
| 162.16 | INTERPRE.ERL | 10k  | EB 8A |                                    |
| 162.17 | INTERPRE.PAS | 14k  | E9 16 | interpreter source                 |
| 162.18 | MAKECCP .SUB | 1k   | 7F 7C | submit file - note synonyms        |
| 162.19 | PLO .COM     | 26k  | 40 B0 | Wirth PL/O compiler                |
| 162.20 | PLO .ERL     | 13k  | E2 A1 |                                    |
| 162.21 | PLO .PAS     | 15k  | 29 CA |                                    |
| 162.22 | RECREAD .    | 1k   | 70 D1 | sample PL/O program                |
| 162.23 | TEST .CCP    | 1k   | 99 A8 | variable access test               |
| 162.24 | TRIO .CCP    | 1k   | 7F 1B | 3 processes writing to screen      |

SIG-M Library -CATALOG Volume Number-162, 24 Files cataloged.

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CPMZ80            volume 1            Utility programmer

-CATALOG.001      Indhold af CPMZ80 volume 1  
                      frigivet den 1.11.83

ABS            .001      Disk dokumentation

| index  | navn         | størrelse | beskrivelse                             |
|--------|--------------|-----------|-----------------------------------------|
| 001.01 | CAP .COM     | 8K        | CP/M ASSEMBLER PACKAGE FOR Z80 CPU      |
| 001.02 | CAPDOC .PEN  | 16K       | DOKUMENTATION TIL DENNE                 |
| 001.03 | CIP .COM     | 10K       | CP/M INVERSE ASSEMBLER PACKAGE TIL Z80  |
| 001.04 | CIPDOC .PEN  | 6K        | DOKUMENTATION TIL DENNE                 |
| 001.05 | DISKZAP .COM | 4K        | DIREKTE ADGANG TIL SKIVENS INDHOLD      |
| 001.06 | FILZAP .COM  | 6K        | DIREKTE ADGANG TIL EN FILS INDHOLD      |
| 001.07 | FORMAT40.COM | 2K        | FORMATERER I GEMINI's STANDARD FORMAT   |
| 001.08 | FORMAT80.COM | 2K        | FORMATERER I GEMINI's STANDARD FORMAT   |
| 001.09 | BACKUP80.COM | 2K        | BACKUP PROGRAM TIL 80 SPOR GEMINI's F.  |
| 001.10 | BACKUP80.MAC | 6K        | SOURCE TEKSTEN HERTIL                   |
| 001.11 | CAP .PAS     | 16K       | NETVÆRKSPROGRAM TIL ELEKTRISKE KREDSLØB |
| 001.12 | CAPDOC .TXT  | 10K       | DOKUMENTATION HERTIL                    |
| 001.13 | FILTER1 .KMP | 2K        | EKS. PA KREDSLØB                        |
| 001.14 | PERT .PAS    | 10K       | TIDPLANLÆGNINGSPROGRAM                  |
| 001.15 | KAR/NORM.COM | 2K        | GEMINI IVCKORT NORMAL DANSK KARAKTERER  |
| 001.16 | KAR/PASC.COM | 2K        | GEMINI IVCKORT PASCAL KARAKTERER        |
| 001.17 | STATUS .COM  | 2K        | FINDER VIGTIGE ADRESSER OMKRING CP/M    |
| 001.18 | SWEEP .COM   | 26K       | FLYTTER, VISER, SLETTE, RENAMER M.M.    |

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CPMZ80

volume 4

Editor, debug, Comalpgr.

-CATALOG.004

Indhold af CPMz80 v. 4  
frigivet den 12.2.84

| index  | navn         | størrelse | beskrivelse                                      |
|--------|--------------|-----------|--------------------------------------------------|
| 004.01 | CHARD .COM   | 4 K       | KARAKTERGENERATOR TIL GEMINI'S IVC-KORT          |
| 004.02 | CHARD .MAC   | 18 K      | SOURCEFILEN HERTIL                               |
| 004.03 | E .COM       | 26 K      | EDITOR TIL GEMINI'S IVCKORT (FRA BCD C)          |
| 004.04 | E .MAN       | 4 K       | MANUAL HERTIL                                    |
| 004.05 | DUTIL .COM   | 10 K      | DISK UTILITY PGR. I STIL MED REPAIR              |
| 004.06 | DCON11 .COM  | 10 K      | DEBUGGER MED SID OG ZSID SOM OPHAV               |
| 004.07 | DCON11 .DOC  | 16 K      | MANUAL HERTIL                                    |
| 004.08 | SWEEP12 .DOC | 4 K       | DOKUMENTATION TIL SWEEP V. 1.2                   |
| 004.09 | NASRD .MAC   | 12 K      | READ NASCOM TAPE UNDER CP/M                      |
| 004.10 | NASWR .MAC   | 10 K      | WRITE NASCOM TAPE FORMAT UNDER CP/M              |
| 004.11 | NASRDWR .DOC | 2 K       | DOKUMENTATION HERTIL                             |
| 004.12 | BOLDKLUB.CML | 2 K       | KLUBKARTOTEK I COMAL. BESKREVET BL.A. I          |
| 004.13 | OPRETMED.CML | 6 K       | : POPULÆR ELEKTRONIK /                           |
| 004.14 | RETMEDL .CML | 6 K       | :                                                |
| 004.15 | VISMEDL .CML | 4 K       | :                                                |
| 004.16 | LISTMEDL.CML | 4 K       | :                                                |
| 004.17 | SLETMEDL.CML | 4 K       | :-----/                                          |
| 004.18 | KILL .CML    | 2 K       | KAN FORHINDRE LISTNING AF COMALPGR.              |
| 004.19 | MENU .CML    | 6 K       | VÆLG MELLEM DE VÆRENDE COMALPGR. PÅ DISK         |
| 004.20 | ROULET .CML  | 10 K      | ROULETTESPIEL                                    |
| 004.21 | ROULET .RAN  | 4 K       |                                                  |
| 004.22 | KATALOG.CML  | 6 K       | UDSKRIVER DIREKTORY SORTERET FRA COMAL           |
| 004.23 | TIPSPROG.CML | 8 K       | UDREGNER PROGNOSEN FOR EN 13/12/11/10.           |
| 004.24 | LIGNING .CML | 16 K      | LÆRER DIG AT LØSE 1. GRADSLIGNINGER              |
| 004.25 | TEACH .CML   | 18 K      | HER KAN DU LAVE EGNE UNDERVISNINGSPGR            |
| 004.26 | PASTRE .CML  | 2 K       | UDSKRIVER PASCAL TREKANT PÆNT PÅ SKÆRM           |
| 004.27 | ROVDYR .CML  | 10 K      | :3 UNDERVISNINGSPROGRAMMER; BIOLOGISK<br>BALANCE |
| 004.28 | RUTHERF .CML | 6 K       | :RUTHERFORDS MODEL FOR KERNEAFBØJNING            |
| 004.29 | YOUNG .CML   | 10 K      | :YOUNGS FORSØG MED INTERFERENS MED LYS           |

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|              |       |
|--------------|-------|
| -CATALOG.005 | 0k :  |
| ARCTAN .PAS  | 2k :  |
| CONVERTM.IN2 | 4k :  |
| CONVERTM.INT | 4k :  |
| CONVERTM.PAS | 6k :  |
| COS .PAS     | 2k :  |
| CRTMAP .PAS  | 4k :  |
| CUSTOMIZ.INT | 2k :  |
| DEBUG .INT   | 2k :  |
| ERASE .INT   | 2k :  |
| EXEC .COM    | 24k : |
| EXP .PAS     | 2k :  |
| INDEX0 .INT  | 10k : |
| INDEX1 .INT  | 8k :  |
| INDEX2 .INT  | 2k :  |
| JGRAFF .INT  | 6k :  |
| JGRAFF .PAS  | 8k :  |
| JRTASM .INT  | 16k : |
| JRTPAS3 .COM | 22k : |
| JSTAT .PAS   | 4k :  |
| LETTERS .INT | 2k :  |
| LINKER .INT  | 4k :  |
| LN .PAS      | 2k :  |
| PASCAL .LIB  | 14k : |
| PASCAL0 .INT | 24k : |
| PASCAL1 .INT | 8k :  |
| PASCAL2 .INT | 6k :  |
| PASCAL3 .INT | 10k : |
| PASCAL4 .INT | 2k :  |
| PICTURE .INT | 6k :  |
| PIP .COM     | 8k :  |
| READTHIS.    | 2k :  |
| RENAME .INT  | 2k :  |
| RESETBIT.ASM | 2k :  |
| SEARCH .INT  | 2k :  |
| SETBIT .ASM  | 2k :  |
| SIN .PAS     | 2k :  |
| SQRT .PAS    | 2k :  |
| TESTBIT .ASM | 2k :  |
| VERIFY .INT  | 2k :  |

Specified files: 40 files occupy 234K bytes

Manual kan lånes mod depositum hos

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CPMZ80                    volumen 6

UK Users Group Volume 8.

DESCRIPTION: Miscellaneous Utilities.

| NUMBER | SIZE | NAME         | COMMENTS                           |
|--------|------|--------------|------------------------------------|
|        |      | CATALOG.006  | CONTENTS OF UK VOL. 08             |
| 006.1  | 9K   | ASMSYMBL.ASM | Add sorted symbol table to ASM.COM |
| 006.2  | 1K   | BCOM.COM     | Binary file compare utility.       |
| 006.3  | 15K  | BLOCK.ASM    | Block Letter display routine.      |
| 006.4  | 1K   | DISK.COM     | Directory list program             |
| 006.5  | 2K   | DSKED.COM    | Disk sector editor.                |
| 006.6  | 1K   | DUMP.COM     | Dump file in Hex and ASCII.        |
| 006.7  | 4K   | EDIT.COM     | Text editor.                       |
| 006.8  | 16K  | EDIT.DOC     | Documentation for editor.          |
| 006.9  | 2K   | EPRINT.COM   | Multiple file print for MX80.      |
| 006.10 | 1K   | ERASE.COM    | Selective file erase.              |
| 006.11 | 1K   | FCOM.COM     | File compare program.              |
| 006.12 | 2K   | IMAGE.COM    | Track copier program.              |
| 006.13 | 2K   | MFT.COM      | Two drive copy program.            |
| 006.14 | 2K   | MFT1.COM     | Single drive copy program.         |
| 006.16 | 10K  | UTILITY.DOC  | Doc. for files on this disk.       |
| 006.17 | 1K   | VERIFY.COM   | Verify disk or selected files.     |
| 006.19 | 29K  | XREFASM.ASM  | Cross-reference listing from       |
| 006.20 | 4K   | XREFASM.COM  | .PRN file produced by              |
| 006.21 | 3K   | XREFASM.DOC  | ASM.COM, Z80ASM.COM or             |
| 006.22 | 6K   | XREFASM.REF  | MAC.COM assemblers.                |
| 006.23 | 20K  | ZDIS.DOC     | Doc. of disassembler.              |
| 006.24 | 9K   | ZDIS24K.COM  | Z80 disassembler to                |
| 006.25 | 9K   | ZDIS32K.COM  | Zilog/Mostek or TDL                |
| 006.26 | 58K  | ZDIS32K.ZSM  | mnemonics.                         |

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CPMZ80

volumen 7

UK Users Group Volume 14

DESCRIPTION: (1) C Programs  
(2) Utilities.

| NUMBER | SIZE | NAME         | COMMENTS                                      |
|--------|------|--------------|-----------------------------------------------|
|        |      | -CATALOG.14- | CONTENTS OF UK VOL. 14                        |
| 007.1  | 24K  | BBCBASIC.HLP | Help file for BBCBASIC(Z80)                   |
| 007.2  | 2K   | CPROGS.DOC   | Documentation for C programs on this disc     |
| 007.3  | 4K   | EXAMPLE.MAC  | Sample program using TI9995 macro library     |
| 007.4  | 1K   | EXAMPLE.REL  | /                                             |
| 007.5  | 10K  | FCAT.COM     | Improved catalog program                      |
| 007.6  | 2K   | FCAT.DOC     | /                                             |
| 007.7  | 5K   | FCAT.PAS     | /                                             |
| 007.8  | 1K   | FILTER.C     | Remove CR from text file                      |
| 007.9  | 2K   | FILTER.COM   | /                                             |
| 007.10 | 13K  | HELP.ASM     | Improved help program                         |
| 007.11 | 2K   | HELP.COM     | /                                             |
| 007.12 | 1K   | LIST.C       | File display program                          |
| 007.13 | 4K   | LIST.COM     | /                                             |
| 007.14 | 3K   | MYLIB.C      | C/80 library                                  |
| 007.15 | 28K  | SWEEP.COM    | Super directory maintenance and file transfer |
| 007.16 | 13K  | SWEEP35.DOC  | utility                                       |
| 007.17 | 1K   | SYM.COM      | Convert M80 symbol table for ZSID             |
| 007.18 | 3K   | SYM.DOC      | /                                             |
| 007.19 | 7K   | SYM.MAC      | /                                             |
| 007.20 | 5K   | TERM.C       | Terminal program for TRS80 model II           |
| 007.21 | 38K  | TERM.COM     | /                                             |
| 007.22 | 1K   | WORDCNT.C    | Count words in text file                      |
| 007.23 | 4K   | WORDCNT.COM  | /                                             |
| 007.24 | 7K   | X9995.LIB    | M80 macros for TI 9995 cross-assembler        |
| 007.25 | 2K   | XLATE.COM    | Filter control characters from file           |
| 007.26 | 12K  | XLATE.MAC    | /                                             |
| 007.27 | 3K   | ZXREF.COM    | Cross-ref program for Z80 source              |
| 007.28 | 21K  | ZXREF.ZSM    | /                                             |

## UK Users Group Volume 15

DESCRIPTION: (1) Small-C Compiler  
(2) Telex Communication Program

| NUMBER | SIZE | NAME         | COMMENTS                           |
|--------|------|--------------|------------------------------------|
|        |      | -CATALOG.15- | CONTENTS OF UK VOL. 15             |
| 008.1  | 4K   | CONIO.LIB    | Small C libraries                  |
| 008.2  | 5K   | CRUN.LIB     | /                                  |
| 008.3  | 12K  | CZMON.C      | Sample Small-C program             |
| 008.4  | 6K   | CZMON.COM    | /                                  |
| 008.5  | 8K   | CZMON.DOC    | /                                  |
| 008.6  | 11K  | FILE.LIB     | Small-C library                    |
| 008.7  | 2K   | LIST.C       | Sample Small-C program             |
| 008.8  | 2K   | LIST.COM     | /                                  |
| 008.9  | 2K   | NUMIO.LIB    | Small-C library                    |
| 008.10 | 3K   | TAB.C        | Sample Small-C program             |
| 008.11 | 3K   | TAB.COM      | /                                  |
| 008.12 | 1K   | TAB/LIST.DOC | Doc. of Small-C programs           |
| 008.13 | 4K   | TELEX.DOC    | Notes on UK Telex system           |
| 008.14 | 3K   | U-G-FORM.LIB | Small-C submission form            |
| 008.15 | 3K   | UKINSTL.COM  | Telex communication program        |
| 008.16 | 20K  | UKTLX.ASM    | /                                  |
| 008.17 | 3K   | UKTLX.COM    | /                                  |
| 008.18 | 4K   | UKTLX.DOC    | /                                  |
| 008.19 | 9K   | Z80ASMUK.COM | Z80 Assembler for use with Small-C |
| 008.20 | 6K   | Z80DOCUK.DOC | /                                  |
| 008.21 | 27K  | ZSC-1.C      | Small-C compiler                   |
| 008.22 | 27K  | ZSC-2.C      | /                                  |
| 008.23 | 11K  | ZSC-COMP.LIB | /                                  |
| 008.24 | 23K  | ZSMALL.COM   | /                                  |
| 008.25 | 15K  | ZSMALL.DOC   | /                                  |

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UK Users Group Volume 16

DESCRIPTION: Utilities.

| NUMBER | SIZE | NAME         | COMMENTS                             |
|--------|------|--------------|--------------------------------------|
|        |      | -CATALOG.16- | CONTENTS OF UK VOL. 16               |
| 009.1  | 1K   | AUTO.COM     | Auto-execute program on cold boot    |
| 009.2  | 1K   | AUTO.DOC     | /                                    |
| 009.3  | 3K   | AUTO.MAC     | /                                    |
| 009.4  | 3K   | CUBE.COM     | 5x5 Cube puzzle                      |
| 009.5  | 12K  | CUBE.ZSM     | /                                    |
| 009.6  | 1K   | DISK3.COM    | CP/M 3 utility. See UTIL.DOC         |
| 009.7  | 7K   | DISKSTAT.COM | Display disk characteristics         |
| 009.8  | 47K  | DISKSTAT.MAC | and file allocation                  |
| 009.9  | 3K   | DSKED3.COM   | CP/M 3 utility. See UTIL.DOC         |
| 009.10 | 1K   | DUMP.COM     | Improved file dump utility           |
| 009.11 | 1K   | DUMP.DOC     | /                                    |
| 009.12 | 11K  | DUMP.MAC     | /                                    |
| 009.13 | 2K   | IMAGE3.COM   | CP/M 3 utility. See UTIL.DOC         |
| 009.14 | 1K   | PASSWORD.COM | CP/M 3 utility. See UTIL.DOC         |
| 009.15 | 2K   | PXSUM.COM    | PROM checksum program. See UTIL.DOC  |
| 009.16 | 2K   | SBCOPY.COM   | SuperBrain fast copy program         |
| 009.17 | 1K   | SBCOPY.DOC   | /                                    |
| 009.18 | 12K  | SBCOPY.MAC   | /                                    |
| 009.19 | 8K   | SPZ.COM      | Full screen disk utility. Assembled  |
| 009.20 | 11K  | SPZ.DOC      | for SuperBrain.                      |
| 009.21 | 69K  | SPZ.MAC      | /                                    |
| 009.22 | 1K   | SYM.COM      | Generate SID-compatible symbol       |
| 009.23 | 3K   | SYM.DOC      | table from Macro-80 listing file     |
| 009.24 | 7K   | SYM.MAC      | /                                    |
| 009.25 | 1K   | UNLOAD.COM   | Convert .COM to .HEX. See UTIL.DOC   |
| 009.26 | 7K   | UTIL.DOC     | Documentation for files on this disk |
| 009.27 | 1K   | VERIFY3.COM  | CP/M 3 utility. See UTIL.DOC         |
| 009.28 | 1K   | WRTSYS.COM   | CP/M 3 utility. See UTIL.DOC         |

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volumen 10

UK Users Group Volume 17

DESCRIPTION: Magazine Index 1978-1983.

| NUMBER | SIZE | NAME         | COMMENTS                        |
|--------|------|--------------|---------------------------------|
|        |      | -CATALOG.17- | CONTENTS OF UK VOL. 17          |
| 010.1  | 1K   | CRCKLIST.CRC | Checksums of files on this disk |
| 010.2  | 224K | MAGS.        | Main Index File                 |
| 010.3  | 3K   | MAGS.DOC     | Documentation                   |
| 010.4  | 12K  | SCAN.COM     | Program to scan index           |

DESCRIPTION:Numerical programs from Dutch British Micro Mimi 80X User Group

| NUMBER | SIZE | NAME         | COMMENTS                                    |
|--------|------|--------------|---------------------------------------------|
|        |      | CATENG.506   | CONTENTS OF CP/M VOL. 506                   |
|        |      | CATNED.506   | Dutch catalog                               |
| 011.1  | 1K   | ABSTENG.506  | English abstract                            |
| 011.2  | 1K   | ABSTNED.506  | Dutch Abstract                              |
| 011.3  | 2K   | BINOMIAL.BAS | Binomial distribution calculation           |
| 011.4  | 1K   | BISECTIE.BAS | Calculation of roots of a function          |
| 011.5  | 6K   | BOLPROJ.BAS  | Non-linear estimation                       |
| 011.6  | 14K  | CIRKEL.BAS   | , , ,                                       |
| 011.7  | 5K   | COMPLEX.BAS  | Demo complex numbers                        |
| 011.8  | 2K   | COMROOT.BAS  | Roots of complex numbers                    |
| 011.9  | 1K   | CONFID.BAS   | Calculation of confidential-areas           |
| 011.10 | 1K   | CONVERS.BAS  | Demo rectangular to polar coordinates       |
| 011.11 | 1K   | COTRANS.BAS  | Transformation of coordinates               |
| 011.12 | 2K   | CUBICSPL.BAS | Cubic-spline interpolation                  |
| 011.13 | 1K   | CUMULAT.BAS  | Calculation on chi-square distribution      |
| 011.14 | 3K   | CYCLJAC.BAS  | Cyclic jacobi method for eigenvalues        |
| 011.15 | 1K   | DEMOSYM.BAS  | Demonstration sym matrix                    |
| 011.16 | 1K   | DETERMIN.BAS | Determinant of a matrix                     |
| 011.17 | 1K   | DRIEDMAT.BAS | 3-D Matrix Multiplication                   |
| 011.18 | 1K   | EERSTEG.BAS  | First grade regression                      |
| 011.19 | 1K   | EIGENV2.BAS  | Eigenvalues of a general matrix             |
| 011.20 | 1K   | EIGENVA1.BAS | Largest eigenvalue of a matrix              |
| 011.21 | 3K   | FASTFOUR.BAS | Fourier transformation                      |
| 011.22 | 4K   | FOURIER.BAS  | Fourier calculation                         |
| 011.23 | 1K   | GAUSINT.BAS  | Gauss evaluation of an integral             |
| 011.24 | 4K   | HOGEREGR.BAS | Higher degree of regression                 |
| 011.25 | 1K   | INVER1.BAS   | Inversion of a sym matrix                   |
| 011.26 | 2K   | INVER2.BAS   | Inversion of a matrix                       |
| 011.27 | 2K   | INVER3.BAS   | , ,                                         |
| 011.28 | 1K   | INVER4.BAS   | , ,                                         |
| 011.29 | 2K   | KANSVERD.BAS | Chance calculation                          |
| 011.30 | 1K   | LUDECDM.BAS  | L.U Decomposition (demo)                    |
| 011.31 | 1K   | LUDECOM.BAS  | , ,                                         |
| 011.32 | 7K   | MAIN.BAS     | Demo and explanation of non-lin. estimation |
| 011.33 | 1K   | NEWTON.BAS   | Calculation of a root of a function         |
| 011.34 | 1K   | NFAC.BAS     | Calculation of n!                           |
| 011.35 | 1K   | PREDIC.BAS   | Solution differential equation              |
| 011.36 | 1K   | REGUFALS.BAS | Calculation of a root of a function         |
| 011.37 | 2K   | RUNGE.BAS    | Solution differential equation              |
| 011.38 | 1K   | SAMSI7.BAS   | Calculation minimal sample size             |
| 011.39 | 1K   | SECANT.BAS   | Calculation of a root of a function         |
| 011.40 | 5K   | SHIFTS.BAS   | Eigenvalue calculation                      |
| 011.41 | 1K   | SIMEQ1.BAS   | Solution of simultaneous equations          |
| 011.42 | 3K   | SIMEQ10.BAS  | /                                           |
| 011.43 | 1K   | SIMEQ2.BAS   | /                                           |
| 011.44 | 2K   | SIMEQ3.BAS   | /                                           |
| 011.45 | 1K   | SIMEQ4.BAS   | /                                           |
| 011.46 | 1K   | SIMEQ5.BAS   | /                                           |
| 011.47 | 1K   | SIMEQ6.BAS   | /                                           |
| 011.48 | 1K   | SIMEQ7.BAS   | /                                           |
| 011.49 | 2K   | SIMEQ8.BAS   | /                                           |

|        |     |              |                               |
|--------|-----|--------------|-------------------------------|
| 011.50 | 2K  | SIMEQ9.BAS   | /                             |
| 011.51 | 1K  | SIMPSINT.BAS | Calculation of an integral    |
| 011.52 | 2K  | SIMPSON.BAS  | ,, ,,                         |
| 011.53 | 2K  | STATIST.BAS  | Statistical prog              |
| 011.54 | 2K  | TFORM.BAS    | ,, ,,                         |
| 011.55 | 3K  | TMEAN.BAS    | ,, ,, Test program            |
| 011.56 | 2K  | TVALUE.BAS   | T statistics                  |
|        |     |              |                               |
| 011.57 | 2K  | BAIRSTOW.BAS | Complex roots of a polynomial |
| 011.58 | 1K  | EXPRES.BAS   | Regression                    |
| 011.59 | 2K  | FOURSERI.BAS | Fourier serie calculation     |
| 011.60 | 1K  | GOEREG.BAS   | Geometric regression          |
| 011.61 | 10K | SUBR.BAS     | 39 calculation subroutines    |

## VOLUME CUG--"Just Like Mom's"

## DESCRIPTION:

| NUMBER | SIZE | NAME         | COMMENTS                                                                                                                                                                              |
|--------|------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |      | CATALOG.CUG  | CONTENTS OF CP/M VOL. CUG                                                                                                                                                             |
| CUG.1  | 3K   | CATALOG.DOC  | This document.                                                                                                                                                                        |
| CUG.2  | 5K   | CRYPTC.PAK   | a file encryption program that uses a pseudo-random number generator with the keyword as a seed. This is packed source ('C').                                                         |
| CUG.3  | 7K   | CRYPTCOM.PAK | A packed object file of the above.                                                                                                                                                    |
| CUG.4  | 7K   | EDIT2C.PAK   | A packed segment of the q.e.d. source.                                                                                                                                                |
| CUG.5  | 6K   | EDIT3C.PAK   | More of the same.                                                                                                                                                                     |
| CUG.6  | 14K  | EDITC.PAK    | The first segment of source for q.e.d (just like the one "Mom" used to make) in packed form. This program is written in 'C' and will compile with the BDS 'C' Compiler once unpacked. |
| CUG.7  | 21K  | EDITCOM.PAK  | Packed version of executable q.e.d. com file                                                                                                                                          |
| CUG.8  | 7K   | EDITDOC.PAK  | Help file describing use of q.e.d.                                                                                                                                                    |
| CUG.9  | 2K   | EDITHLP.PAK  | File containing the help message available from within q.e.d.                                                                                                                         |
| CUG.10 | 3K   | EDITINC.PAK  | Packed source file containing global declarations "included" in all edit source files during compilation.                                                                             |
| CUG.11 | 2K   | ENVIRON.DOC  | Describes requirements of programs on this disk and the environment they were developed in.                                                                                           |
| CUG.12 | 3K   | HELPC.PAK    | Source for a tutorial program describing the use of q.e.d. (packed) Written in C for the BDS compiler.                                                                                |
| CUG.13 | 6K   | HELPCOM.PAK  | The packed com file for the above.                                                                                                                                                    |
| CUG.14 | 8K   | HELPDI.PAK   | Packed data files for the above.                                                                                                                                                      |
| CUG.15 | 3K   | HIST.PAK     | A note on the origins of q.e.d and ROFF. Packed.                                                                                                                                      |
| CUG.16 | 6K   | NDIOC.PAK    | A new, allegedly more flexible, version of the directed i/o package normally included with BDS 'C'. Required if edit files are to be recompiled. Packed. Written in 'C'.              |
| CUG.17 | 9K   | PACKC.PAK    | Packed 'C' source for the program used used to pack this disk.                                                                                                                        |
| CUG.18 | 10K  | PACKCOM.PAK  | Packed .com version of the above.                                                                                                                                                     |
| CUG.19 | 5K   | PACKDOC.PAK  | Packed documentation for above.                                                                                                                                                       |
| CUG.20 | 3K   | READ.ME      | File describing the unpack process.                                                                                                                                                   |
| CUG.21 | 2K   | README.PAK   | Packed file with other messages from the authors.                                                                                                                                     |
| CUG.22 | 8K   | ROFF1C.PAK   | Packed source files (this and below) Written in 'C'.                                                                                                                                  |
| CUG.23 | 7K   | ROFF2C.PAK   | see above                                                                                                                                                                             |
| CUG.24 | 15K  | ROFFCOM.PAK  | Packed .com version of above                                                                                                                                                          |
| CUG.25 | 5K   | ROFFDOC.PAK  | Packed tutorial on use of above.                                                                                                                                                      |
| CUG.26 | 3K   | ROFFGLOB.PAK | Packed 'C' source file containing containing global declarations used in the above source files.                                                                                      |
| CUG27  | 1K   | UBGETC       | A modified version of the standard 'C' library function getc. This change                                                                                                             |

|        |     |             |
|--------|-----|-------------|
| CUG.28 | 11K | UNPACK.COM  |
| CUG.29 | 8K  | UNPACKC.PAK |
| CUG.30 | 1K  | UNPAKIT.SUB |

is necessary to the compilation of the editor (only used by help function within the editor).

Used to unpack this disk.

Packed 'C' source for above.

Submit file which used UNPACK.COM to to automatically unpack and properly name all files on this disk. (no small or quick task.

| SIZE | NAME         | COMMENTS                                                                        |
|------|--------------|---------------------------------------------------------------------------------|
|      | CATALOG.BDS  | This file                                                                       |
| 10K  | CLOGS.C      | Source of "log" functions                                                       |
| 5K   | CLOGS.CRL    | compiled above                                                                  |
| 5K   | CLOGS.DOC    | Documentation of above                                                          |
| 1K   | COEFSTAT.C   | Source of program conv fp to octal string                                       |
| 1K   | COEFSTAT.CRL | compiled above                                                                  |
| 8K   | CTRIG.C      | Source of "trig" functions                                                      |
| 5K   | CTRIG.CRL    | compiled above                                                                  |
| 6K   | CTRIG.DOC    | Documentation of above                                                          |
| 12K  | DEFF.CRL     | Regular DEFF with FLOAT+44 functions added                                      |
| 10K  | FLOAT+44.C   | Source of upgraded Floating point package                                       |
| 6K   | FLOAT+44.CRL | compiled above                                                                  |
| 11K  | FLOAT+44.DOC | Documentation of above                                                          |
|      | FORM.CPM     | CPM UG form used to submit data herein                                          |
| 2K   | NEWFLVAL.C   | Source of program used to test FLOAT+44                                         |
| 9K   | NEWFLVAL.COM | linked version of above incl FLOAT+44                                           |
| 2K   | NEWFLVAL.CRL | compiled above                                                                  |
| 2K   | TESTCLOG.C   | Source of program used to test CLOGS                                            |
| 12K  | TESTCLOG.COM | linked above incl FLOAT+44 & CLOGS                                              |
| 2K   | TESTCLOG.CRL | compiled above                                                                  |
| 2K   | TESTTRIG.C   | Source of program used to test CTRIG                                            |
| 13K  | TESTTRIG.COM | linked above incl FLOAT+44 & CTRIG                                              |
| 2K   | TESTTRIG.CRL | compiled above                                                                  |
| 6K   | FI.C         | File directory and backup utility                                               |
| 10K  | FI.COM       |                                                                                 |
| 4K   | FIO.1        | These three files are designed to<br>allow code as close as possible<br>to K&R. |
| 2K   | FIO.2        |                                                                                 |
| 6K   | FIO.3        |                                                                                 |

## VOLUME C63

DESCRIPTION: Games I

| NUMBER | SIZE | NAME        | COMMENTS                                                                 |
|--------|------|-------------|--------------------------------------------------------------------------|
|        |      | CATALOG.C63 | CONTENTS OF CP/M VOL. C63                                                |
| C63.01 | 8K   | ALIFE.ASM   | Z80 only assembly code, see NLIFE.                                       |
| C63.02 | 2K   | ALIFE.CRL   | Assembled version of above. Link with NLIFE.                             |
| C63.1  | 1K   | HISTORY.C63 | Credits for this volume.                                                 |
| C63.2  | 8K   | BUGS.C      | More for Heath/Zenith. Leor says, "This one is WEIRD!"                   |
| C63.3  | 8K   | DMF.C       | Header for David Fogg games.                                             |
| C63.4  | 1K   | EUCLID.C    | Knuth algorithm for finding greatest common demoninator of two integers. |
| C63.5  | 2K   | EZ1.ANS     | More for IQUIZ                                                           |
| C63.6  | 6K   | FALLOUT.C   | According to Leor, "A logical extension of FLYBY."                       |
| C63.7  | 2K   | FLYBY.C     | Another graphic demo for Heath/Zenith                                    |
| C63.8  | 2K   | HARD1.ANS   | More for IQUIZ                                                           |
| C63.10 | 13K  | HSTONE.C    | Heath/Zenith version of STONE                                            |
| C63.11 | 8K   | IQUIZ.C     | Question and Answer game for Heath/Zenith.                               |
| C63.12 | 23K  | IQUIZ.DAT   |                                                                          |
| C63.13 | 8K   | JOTTO.C     |                                                                          |
| C63.14 | 4K   | JOTTO.WDS   | Heath/Zenith oriented word game.                                         |
| C63.15 | 9K   | LIFE.C      | Life for non-H19/Z19 terminals.<br>(about time someone remembered us!)   |
| C63.16 | 13K  | LIFE.DAT    | Library of screen images for NLIFE                                       |
| C63.17 | 10K  | LINES.C     | Visual demo for H19/Z19                                                  |
| C63.18 | 2K   | MED1.ANS    | Part of IQUIZ                                                            |
| C63.19 | 5K   | MM.C        | Mastermind.                                                              |
| C63.20 | 7K   | NLIFE.C     | New H89/Z89 version of LIFE<br>Requires ALIFE.ASM & .CRL and LIFE.DAT.   |
| C63.21 | 4K   | NLIFE.HLP   |                                                                          |
| C63.22 | 2K   | POLISH.C    | RPN demonstration.                                                       |
| C63.23 | 8K   | PRESSUP.C   | A peg game by Steve Ward                                                 |
| C63.24 | 1K   | R2.MAP      | For Rally.                                                               |
| C63.25 | 11K  | RALLY.C     | Road game for H19/Z19                                                    |
| C63.26 | 2K   | RALLY.MAP   | Data for RALLY                                                           |
| C63.27 | 7K   | STD.H       | Required for XWORD,Yahtzee,IQUIZ                                         |
| C63.28 | 10K  | STONE.C     | WARI for tty type terminals                                              |
| C63.29 | 8K   | TTT.C       | Tic-Tac-Toe...this goes way back                                         |
| C63.30 | 2K   | TV.ANS      | Data file for XWORD                                                      |
| C63.31 | 4K   | XPRT1.ANS   | Data file for XWORD                                                      |
| C63.32 | 15K  | XWORD.C     | Crossword puzzle game for H19/Z19                                        |
| C63.33 | 12K  | YAHTZEE.C   | Classic die/poker game.                                                  |
| C63.34 | 4K   | YAHTZEE.HLP |                                                                          |

## VOLUME CG4

## DESCRIPTION: Utilities I

| NUMBER | SIZE | NAME                | COMMENTS                                                                                                                                                   |
|--------|------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |      | CATALOG.CG4         | CONTENTS OF VOL.                                                                                                                                           |
| CG4.1  | 6K   | -HISTORY.CG4<br>B.C | Background of these contributions.<br>Big directory program for<br>H89/H19, generates alphabetic<br>directories.                                           |
| CG4.2  | 2K   | BIGDIR.C            | Big directory program for<br>standard 24 x 80 screens.                                                                                                     |
| CG4.3  | 8K   | CB.C                | Pretty printer for C programs                                                                                                                              |
| CG4.4  | 2K   | CCOT.C              | C pre-processor for TRS-80.<br>Translates special pound sign<br>escapes into C special characters.                                                         |
| CG4.5  | 9K   | CCRL.C              | Creates a CRL file from an existing<br>COM file.                                                                                                           |
| CG4.6  | 3K   | CCRL.DOC            | Instructions for using above.                                                                                                                              |
| CG4.7  | 4K   | CHCNT.C             | Demo program counts occurrences of ASCII<br>Characters in a file.                                                                                          |
| CG4.8  | 2K   | CLOCK.H             | Header for DateDemo programs below.                                                                                                                        |
| CG4.9  | 4K   | COMP.C              | Compares two files and lists differ-<br>Comparison is line based.                                                                                          |
| CG4.10 | 14K  | COMPRESS.C          | Program compacts files by replacing<br>repeated strings with 1 char tokens.                                                                                |
| CG4.11 | 15K  | COMPRESS.COM        |                                                                                                                                                            |
| CG4.12 | 3K   | COMPRESS.DOC        |                                                                                                                                                            |
| CG4.13 | 8K   | CONCORD.C           | Creates an intermediate file<br>which can be sorted to form a con-<br>cordance for the input file.<br>See CONOUT, WFREQ, MERGE, MSORT<br>KWIC, LIST, STD.H |
| CG4.14 | 4K   | CONOUT.C            | This processes the output of<br>CONCORD to create the finished<br>concordance.                                                                             |
| CG4.15 | 8K   | DATEDEMO.C          | Program demonstrating use of<br>Mountain Hardware real-time clock<br>board.                                                                                |
| CG4.16 | 7K   | DATEDEMO.COM        |                                                                                                                                                            |
| CG4.17 | 12K  | DATEDEMO.DOC        | Article advocating use of C,<br>Explains above program.                                                                                                    |
| CG4.18 | 9K   | DISK.C              | "Disk Surgery program." Allows<br>Direct manipulation of the media.<br>Works only with single density.                                                     |
| CG4.19 | 8K   | DMF.C               | Functions for KWIK related programs.<br>See CONCORD and related documents<br>above.                                                                        |
| CG4.20 | 7K   | KWIC.C              | Generates an unsorted Kwik index.<br>See CONCORD above.                                                                                                    |
| CG4.21 | 5K   | LIST.C              | Program for listing text files.                                                                                                                            |
| CG4.22 | 5K   | MERGE.C             | Generates a single sorted file from<br>from smaller sorted files.                                                                                          |
| CG4.23 | 8K   | MSORT.C             | Uses quick sort algorithm to create<br>sorted sub-files. See Merge, CONCORD.                                                                               |
| CG4.24 | 7K   | RT11.C              | Converts RT11 format to CPM format.                                                                                                                        |
| CG4.25 | 14K  | RT11.COM            |                                                                                                                                                            |
| CG4.26 | 8K   | RT11.DOC            | Excellent documentation for                                                                                                                                |

RT11 translator.

|        |     |           |                                                                                                      |
|--------|-----|-----------|------------------------------------------------------------------------------------------------------|
| CG4.27 | 2K  | RT11.H    |                                                                                                      |
| CG4.28 | 12K | RTFILES.C |                                                                                                      |
| CG4.29 | 4K  | RTMISC.C  |                                                                                                      |
| CG4.30 | 3K  | SHOW.C    | Permits the display (using escape representations) of all characters in a file. (Even parity bits!!) |
| CG4.31 | 7K  | STD.H     | Header for KWIC related programs.                                                                    |
| CG4.32 | 2K  | STRIP.C   | Strips high-order bits from a file.                                                                  |
| CG4.33 | 1K  | WC.C      | Program to count words in a file.                                                                    |
| CG4.34 | 4K  | WFREQ.C   | KWIK companion, tallies the frequency of occurrence for words in a file.                             |

## VOLUME C65

## DESCRIPTION: Utilities II

| NUMBER | SIZE | NAME         | COMMENTS                                                                                                                     |
|--------|------|--------------|------------------------------------------------------------------------------------------------------------------------------|
|        |      | CATALOG.C65  | CONTENTS OF CP/M VOL. C65                                                                                                    |
| C65.1  | 1K   | -CATALOG.C65 |                                                                                                                              |
| C65.2  | 3K   | BIGFIO.C     | File functions for Scott W. Layson's programs. See TYP below.                                                                |
| C65.3  | 1K   | CONCAT.C     | Concatenate two files, putting result in into third.                                                                         |
| C65.4  | 4K   | CONVERT.C    | Converts regular C source files to pound sign escape representation for editing on TRS-80 or other upper-case only machines. |
| C65.5  | 5K   | COPYALL.C    | Simplifies disk/file copying on one drive systems.                                                                           |
| C65.6  | 5K   | COUNT.C      | Counts the number of chars, words, lines in a file.                                                                          |
| C65.7  | 5K   | DEL.C        | Like ERA only requests verification before deleting file.                                                                    |
| C65.8  | 7K   | FILECOMP.C   | Compares, byte for byte, two files and lists differences.                                                                    |
| C65.9  | 2K   | GLOBALS.WP   | See WP.C below.                                                                                                              |
| C65.10 | 3K   | LISTF.C      | Dumps both ASCII and Hex representations of a file, one record at a time.                                                    |
| C65.11 | 3K   | LPR.C        | Line printer formatter, for C programs.                                                                                      |
| C65.12 | 1K   | MACDEFS.WP   | See WP.C below.                                                                                                              |
| C65.13 | 2K   | NEWCHCNT.C   | Compiles frequency information for each possible byte in a file.                                                             |
| C65.14 | 3K   | PG.C         | Outputs info to standard output one at a time.                                                                               |
| C65.15 | 6K   | PG.COM       |                                                                                                                              |
| C65.16 | 1K   | PNUM.C       | Prints a file with line numbers.                                                                                             |
| C65.17 | 3K   | PRMDMP.C     | Program for reading prompts.                                                                                                 |
| C65.18 | 6K   | SCREEN.C     | Flashwriter for TRS-80 Mod II.                                                                                               |
| C65.19 | 6K   | SCREEN.COM   |                                                                                                                              |
| C65.20 | 2K   | SCRUB.C      | Copies a file deleting all control characters except tab, lf, cr, ff.                                                        |
| C65.21 | 12K  | SEARCH.ASM   | Searches RAM or a file for data. Search string may be specified in Hex or ASCII form.                                        |
| C65.22 | 1K   | SEARCH.COM   |                                                                                                                              |
| C65.23 | 3K   | TABIFY.C     | Converts spaces to tabs.                                                                                                     |
| C65.24 | 21K  | TELNET.C     | Serial communication program.                                                                                                |
| C65.25 | 1K   | TYP.C        | Uses largest buffer possible to hold ASCII file during display.                                                              |
| C65.26 | 12K  | UCSD2CPM.C   | Translates UCSD Pascal files to CP/M format.                                                                                 |
| C65.27 | 8K   | UCSDIR.C     | Lists the directory of a UCSD Pascal diskette.                                                                               |
| C65.28 | 1K   | UNTAB.C      | Turns tabs into spaces.                                                                                                      |
| C65.29 | 4K   | UTIL-WP.C    | See WP.C below.                                                                                                              |
| C65.30 | 5K   | VARTABS.C    | Converts ASCII file to/from tabbed form. Allows user to set tab modulus.                                                     |
| C65.31 | 2K   | WC2.C        | Counts characters, words, lines.                                                                                             |
| C65.32 | 10K  | WP.C         | Word processor patterned after ROFF. WP.OUT is sample output, generated from                                                 |

|        |     |            |                                                                                                            |
|--------|-----|------------|------------------------------------------------------------------------------------------------------------|
|        |     |            | WP.DOC input, coincidentally documents<br>use of the program.                                              |
| CG5.33 | 5K  | WP.DOC     |                                                                                                            |
| CG5.34 | 6K  | WP.OUT     |                                                                                                            |
| CG5.35 | 14K | XSDIR.ASM  | Large directory program which<br>produces stat-like information and<br>alphabetizes files.                 |
| CG5.36 | 2K  | XSDIR.COM  |                                                                                                            |
| CG5.37 | 19K | XSDMAC.LIB |                                                                                                            |
| CG5.38 | 3K  | ZLPR.C     | Modified version of LPR. Begins each<br>function at top of new page, allows<br>printing of selected pages. |

VOLUME CG6

## FUNCTION II

## DESCRIPTION:

| NUMBER | SIZE | NAME         | COMMENTS                                                                                        |
|--------|------|--------------|-------------------------------------------------------------------------------------------------|
|        |      | CATALOG.CG6  | CONTENTS OF CP/M VOL. CG6                                                                       |
|        |      | HISTORY.CG6  | Credits for submissions.                                                                        |
| CG6.1  | 1K   | BIOSLB.CRL   | A bios modified by Harvey Moran                                                                 |
| CG6.2  | 4K   | BIOSLB.MAC   |                                                                                                 |
| CG6.3  | 9K   | BIOSLB.PRN   |                                                                                                 |
| CG6.4  | 8K   | BSPAT1-4.DOC | More by Moran on bios tinkering.                                                                |
| CG6.5  | 3K   | CHARFUN.ASM  | Assembly version of library char manipulation functions.                                        |
| CG6.6  | 3K   | CRL.DOC      | Macro file to aid in generating BDS compatible CRL files.                                       |
| CG6.7  | 8K   | CRL.LIB      |                                                                                                 |
| CG6.8  | 2K   | CSYM.LIB     | Symbol file for above.                                                                          |
| CG6.9  | 1K   | DEFFMODS.HRM | Narrative (tutorial) describing The modification of Moran's standard libraries. See STDLIB?.    |
| CG6.10 | 1K   | FACT.MOU     | Factorial program written in MOUSE                                                              |
| CG6.13 | 13K  | GRAVT100.C   | Graphics for the VT100 in ANSI.                                                                 |
| CG6.14 | 9K   | GRAVT100.CRL |                                                                                                 |
| CG6.15 | 3K   | IOFUN.ASM    | Assembly version of C i/o functions.                                                            |
| CG6.16 | 5K   | MACHINE.ASM  | Assembly crl functions, mostly for manipulating blocks of memory                                |
| CG6.17 | 5K   | MOUSE.C      | Interpreter (originally in Pascal) described in BYTE. Issue date in source                      |
| CG6.18 | 1K   | NTOI.C       | Small number crunching functions.                                                               |
| CG6.19 | 1K   | OTOI.C       |                                                                                                 |
| CG6.20 | 4K   | PRVLIB.C     | Misc. functions.                                                                                |
| CG6.21 | 5K   | QUEUE.C      | Functions to impliment FIFO's                                                                   |
| CG6.22 | 1K   | STDEF.C      | By Scott Layson<br>Deff file for NTOI,OTOI,GRAVT100, STRINGS, UTIL1.                            |
| CG6.23 | 4K   | STDIO.DOC    | Functions to simulate Unix's i/o redirection. Written under 1.31 and never tested in this form. |
| CG6.24 | 2K   | STDIO.LIB    |                                                                                                 |
| CG6.25 | 5K   | STDIO.SRC    |                                                                                                 |
| CG6.26 | 7K   | STDLIB1.C    | Modified libraries (for ver 1.32 of BDS C) needed with Mouse, WP.C, XTRINS.                     |
| CG6.27 | 20K  | STDLIB2.C    |                                                                                                 |
| CG6.28 | 4K   | STRFUN.ASM   | C string functions implemented in assembly for efficiency.                                      |
| CG6.29 | 5K   | STRINGS.C    | String manipulation package.                                                                    |
| CG6.30 | 3K   | STRINGS.CRL  |                                                                                                 |
| CG6.31 | 2K   | SYSTEM.C     | Deffs for files listed at STDEF.                                                                |
| CG6.32 | 1K   | TEST.MOU     | Test program for MOUSE...causes a bug in this implementation to show itself.                    |
| CG6.33 | 3K   | UTIL1.C      | Small functions by Donald Stevens.                                                              |
| CG6.34 | 1K   | XTRINSLB.CRL | Two functions to manipulate bits in an array of 1-34 bytes.                                     |
| CG6.35 | 7K   | XTRINSLB.MAC |                                                                                                 |
| CG6.36 | 20K  | XTRINSLB.PRN |                                                                                                 |

## VOLUME C67

## DESCRIPTION:

| NUMBER | SIZE | NAME         | COMMENTS                                                                                                   |
|--------|------|--------------|------------------------------------------------------------------------------------------------------------|
|        |      | CATALOG.C67  | CONTENTS OF CP/M VOL. C67                                                                                  |
|        |      | ENVIRON.DOC  | Comments on the contents.                                                                                  |
| C67.1  | 1K   | CALHOUN.RMK  | Remarks from the author about the RANDOMX package.                                                         |
| C67.2  | 3K   | CIO.C        | Steve Ward's "almost universal" console i/o package.                                                       |
| C67.3  | 1K   | COEFSET.C    | Program to test and initialize floating point constants.                                                   |
| C67.4  | 7K   | CTRIG.C      | Standard trig functions. Written by L.C. Calhoun. Uses FLOATXT package.                                    |
| C67.5  | 5K   | CTRIG.DOC    |                                                                                                            |
| C67.6  | 7K   | DIO.C        | Functions to simulate Unix's directed i/o capabilities.                                                    |
| C67.7  | 1K   | DIO.H        |                                                                                                            |
| C67.8  | 1K   | FLEVAL.C     | Program to evaluate the standard floating point package.                                                   |
| C67.9  | 8K   | FLOAT.C      | Now standard floating point package Included on BDS C distribution disks.                                  |
| C67.10 | 7K   | FLOAT.DOC    |                                                                                                            |
| C67.11 | 1K   | FLOATSUM.C   |                                                                                                            |
| C67.12 | 10K  | FLOATXT.C    | Extensions to the float package. By L.C. Calhoun.                                                          |
| C67.13 | 10K  | FLOATXT.DOC  |                                                                                                            |
| C67.14 | 17K  | LIB.C        | A package of functions, mostly to facility the handling of dollars and cents.                              |
| C67.15 | 6K   | LONG.C       | A package (similar in use to float) which accomodates long integers under BDS C. Written by Dr. Paul Gans. |
| C67.16 | 3K   | LONG.CRL     |                                                                                                            |
| C67.17 | 4K   | LONG.DOC     |                                                                                                            |
| C67.18 | 1K   | LONGCODE.CRL |                                                                                                            |
| C67.19 | 10K  | LONGCODE.MAC |                                                                                                            |
| C67.20 | 22K  | LONGCODE.PRN |                                                                                                            |
| C67.21 | 1K   | LONGCODE.REL |                                                                                                            |
| C67.22 | 12K  | RANDOMX.C    | Package to access the disk as virtual memory.                                                              |
| C67.23 | 9K   | SCOPE.C      | A full screen editing, manipulation package.                                                               |
| C67.24 | 2K   | TESTTRIG.C   | Test demo for CTRIG package                                                                                |

## VOLUME

## UTILITIES III

## DESCRIPTION:

| NUMBER | SIZE | NAME         | COMMENTS                                                                       |
|--------|------|--------------|--------------------------------------------------------------------------------|
|        |      | CATALOG.BDS  | CONTENTS OF CP/M VOL. BDS                                                      |
| BDS.1  | 4K   | BIN2HEX.C    | Binary to hex-ascii format converter                                           |
| BDS.3  | 3K   | CBC.C        | Curly brace checker                                                            |
| BDS.4  | 15K  | CHARGEN.C    | Utility to generate character set for Imsai VIO.                               |
| BDS.5  | 3K   | CHARSET.     | Character descriptions for chargen program.                                    |
| BDS.6  | 10K  | DDNDISK.C    | DISK modified to run with CPM 2.x and odd-ball densities.                      |
| BDS.7  | 2K   | ENVIRON.DOC  | Environment notes for SYMBUG, PROLOG, CHARGEN, CHARSET, BIN2HEX, PRINTF, GETC  |
| BDS.8  | 1K   | FIXCCC.ASM   | Modified runtime package for yam and umodem27                                  |
| BDS.9  | 1K   | GETC.C       | getc function modified for better eof indication.                              |
| BDS.10 | 4K   | PRINTF.C     | _spr modified for leading 0's                                                  |
| BDS.11 | 12K  | PROLOG.C     | Programs & verifies EPROMS using PRO-LOG programmer.                           |
| BDS.12 | 6K   | READ-ME.DOC  | Procedure division for SYMBUG, PROLOG, CHARGEN, CHARSET, BIN2HEX, PRINTF, GETC |
| BDS.13 | 6K   | SYMBUG.C     | Converts "clink" .SYM output file to "vbug" format.                            |
| BDS.14 | 31K  | UMODEM27.C   | Fancy modem program from Unix system                                           |
| BDS.15 | 2K   | UMODEM27.DOC |                                                                                |
| BDS.16 | 2K   | XYAMHELP.T   | Short help file for YAM                                                        |
| BDS.17 | 6K   | YAM.H        | master header file for YAM system                                              |
| BDS.18 | 1K   | YAM.SUB      |                                                                                |
| BDS.19 | 9K   | YAM1.C       | Yet Another Modem program                                                      |
| BDS.20 | 7K   | YAM2.C       |                                                                                |
| BDS.21 | 8K   | YAM3.C       |                                                                                |
| BDS.22 | 4K   | YAM5.C       |                                                                                |
| BDS.23 | 12K  | YAM7.C       |                                                                                |
| BDS.24 | 1K   | YAML.SUB     |                                                                                |
| BDS.25 | 1K   | YAMPHONE.T   | Phone numbers used by YAM                                                      |
| BDS.26 | 2K   | YAMSYS.H     | One of four files copied to YAMSYS.H depending on configuration                |
| BDS.27 | 1K   | YAMTU.SUB    |                                                                                |
| BDS.28 | 2K   | YAMTUART.H   | see above.                                                                     |
| BDS.29 | 1K   | YAMX.SUB     |                                                                                |
| BDS.30 | 2K   | YAMZ89.H     | see YAMSYS.H                                                                   |
| BDS.31 | 2K   | YAMZ89XM.H   | see YAMSYS.H                                                                   |
| BDS.32 | 3K   | BYTEBNCH.C   | A benchmark program ala BYTE                                                   |
| BDS.33 | 1K   | YAMSQ        |                                                                                |
| BDS.34 | 1K   | BLOOK.C      | A program to display the disk block by block?                                  |
| BDS.35 | 2K   | CMP.C        | Compares files                                                                 |
| BDS.36 | 1K   | FIB.C        | Another benchmark, ala Usenix Conference                                       |
| BDS.37 | 1K   | SEE.C        | Prints files, showing non-ascii characters as octal values.                    |
| BDS.38 | 3K   | TABIFY.C     | Enhanced version of TABIFY                                                     |
| BDS.39 | 1K   | TEK.C        | Displays a file a certain number of lines at a time.                           |
| BDS.40 | 2K   | UNDEL.C      | ??                                                                             |

|        |     |              |                                                          |
|--------|-----|--------------|----------------------------------------------------------|
| BDS.41 | 2K  | UNDELETE.C   | ??                                                       |
| BDS.42 | 5K  | VTEST.C      | Benchmark in which BDS beats the<br>Biggies in Assembly! |
| BDS.43 | 1K  | YMTRSII2.SUB |                                                          |
| BDS.44 | 4K  | YAMSII.C     |                                                          |
| BDS.45 | 25K | YAMDOC.FIN   | User documentation for YAM                               |
| BDS.46 | 2K  | YAMTRSII.H   | For TRS-80 users                                         |
| BDS.47 | 1K  | YAMTRSII.SUB |                                                          |

PISTOL v2.0-Portably Implemented STack Oriented Language  
A language in the footsteps of FORTH and STOIC

ARITH documentation on arithmetic operators for  
"on line" use.

COPY.RIT suitable for making labels; copying freely  
permitted as long as notice is supplied.

CORE2. "core image" that results from compiling PBASE2  
(see PISTOL.HLP for details)

DEFS. documentation on definitional operators for  
"on line" use.

EDITOR. documentation on PISTOL supplied editor for  
"on line" use.

ENVIRON.DOC suggests at least 44K ram total.

FUTURE.DEV future directions for PISTOL; suggests some  
standards.

IO. documentation on i/o related operations for  
"on line" use.

ITCOND. documentation on iterational and conditionals  
for "on line" use.

LOGIC. documentation for logic related operations for  
"on line" use.

MEMOPS. documentation for memory related functions for  
"on line" use.

MISC. documetation on miscellaneous utilities for  
"on line" use.

PBASE2. PISTOL source code used to "educate" PISTOL.COM  
to be as smart as described in PISTOL.DOC.

PIST2A.C second source module

PIST2B.C third source module

PIST2C.C fourth source module

PIST2D.C fifth source module

PIST2E.C sixth source module

PISTOL.C main source module

PISTOL.COM \*\*\* this and: 'CORE2 RESTORE will give you a  
new development language; try it you'll like it  
(check the HELP documentation for best results!)

PISTOL.H constants and externals for PISTOL source

PISTOL.PAS 42K PASCAL version of PISTOL that runs on a  
DEC-20 mainframe computer; it helps define the  
way PISTOL is created.

PISTSUB.SUB SUBMIT file to compile and link all C modules

READ.ME History and editorial vis-a-vis with FORTH and  
STOIC

STACK. documentation on stack related words for  
"on line" use.

SYSCONS. documentation on the system's constants for  
"on line" use.

SYSVARS. documentation on the systems variables for  
"on line" use.

TUTORIAL. documentation for starting users for  
"on line" use and may be TYPED out as well!

VOCAB. documentation on vocabulary maintenance for  
"on line" use.

## Description: Utilities IV

| Number  | Size | Name         | Comments                                                                                                                                                                                                   |
|---------|------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CG16.0  | 2k   | #CATALOG.016 |                                                                                                                                                                                                            |
| CG16.1  | 3k   | BC.C         | BC is a 16-bit binary calculator with lots of operators.                                                                                                                                                   |
| CG16.3  | 1k   | BC.DOC       | Doc on above.                                                                                                                                                                                              |
| CG16.4  | 1k   | BC.SUB       | Submit file for above.                                                                                                                                                                                     |
| CG16.5  | 10k  | BCANLYZ.C    | Functions used by above.                                                                                                                                                                                   |
| CG16.6  | 3k   | BCDEF.H      | Header file for BC.                                                                                                                                                                                        |
| CG16.8  | 2k   | CHOP.C       | 'chops' x amount of sec. off front of file.                                                                                                                                                                |
| CG16.9  | 5k   | COUNT.C      | Update of earlier cug release, (counts chars, words, or lines in file).                                                                                                                                    |
| CG16.10 | 11k  | CRCK4.ASM    | Cyclic redundancy check, creates file of crcs for files, totals crcs of all files.                                                                                                                         |
| CG16.11 | 2k   | CRCK4.COM    | Assembled version of above.                                                                                                                                                                                |
| CG16.14 | 7k   | FILECOMP.C   | Update of earlier cug release, compares file byte for byte and reports difference.                                                                                                                         |
| CG16.17 | 3k   | IDIR.C       | View the directory of an single density ISIS diskette.                                                                                                                                                     |
| CG16.18 | 1k   | IDIR.DOC     | Documentation for idir.                                                                                                                                                                                    |
| CG16.21 | 5k   | LABELS.C     | Mailing label preprocessor, allows creation of label file with any editor, works with 4 wide labels.                                                                                                       |
| CG16.12 | 1k   | CUG.ADR      | Sample label file for above.                                                                                                                                                                               |
| CG16.22 | 11k  | MCROANG.C    | Creates char sets for Microangelo graphics bd.                                                                                                                                                             |
| CG16.23 | 7k   | MCROANG.H    | Header file for above.                                                                                                                                                                                     |
| CG16.24 | 4k   | MXPRINT.C    | Functions for driving MX-80/100 printer.                                                                                                                                                                   |
| CG16.25 | 1k   | MXPRINT.DOC  | Doc file on above.                                                                                                                                                                                         |
| CG16.26 | 6k   | MXPRINT.H    | Header file for Mxprint.                                                                                                                                                                                   |
| CG16.27 | 11k  | SE.C         | Sector editor for diskettes, full screen editing of sectors.                                                                                                                                               |
| CG16.28 | 2k   | SE.DOC       | Documentation foe SE.                                                                                                                                                                                      |
| CG16.29 | 1k   | SE.SUB       | Submit file for compiling SE.                                                                                                                                                                              |
| CG16.30 | 5k   | SETER.C      | Funct. allowing fancy screen input to programs.                                                                                                                                                            |
| CG16.7  | 2k   | CHANGES.DQC  | Doc. of changes in various ver. of sq/usq.                                                                                                                                                                 |
| CG16.16 | 6k   | HISTORY.DQC  | History of the sq/usq package.                                                                                                                                                                             |
| CG16.19 | 1k   | IO.CQ        | I/O functions used by sq/usq.                                                                                                                                                                              |
| CG16.15 | 4k   | FLS.CQ       | wildcard preproc., can be piped to sq or usq.                                                                                                                                                              |
| CG16.31 | 5k   | SQ.CQ        | 'Squeezed' c source for sq.                                                                                                                                                                                |
| CG16.32 | 2k   | SQ.HQ        | Headers for sq.                                                                                                                                                                                            |
| CG16.33 | 1k   | SQCOM.HQ     | More stuff used by sq.                                                                                                                                                                                     |
| CG16.34 | 1k   | SQDEBUG.CQ   | A debug function for use with sq/usq.                                                                                                                                                                      |
| CG16.35 | 23k  | SQUEEZER.DOC | The doc. for the sq/usq package (unsqueezed)                                                                                                                                                               |
| CG16.36 | 2k   | TR1.CQ       | First pass functions of sq.                                                                                                                                                                                |
| CG16.37 | 9k   | TR2.CQ       | Second pass functions of sq.                                                                                                                                                                               |
| CG16.38 | 10k  | USQ.COM      | Com file of usq, use to unsqueeze the rest of sq/usq and related functions. Sq uses Huffman encoding techniques that result in average disk space saving of 35-40% See 'squeezer.doc' for all the details. |
| CG16.40 | 6k   | USQ.CQ       | 'Squeezed' source of usq.                                                                                                                                                                                  |
| CG16.41 | 1k   | USQ.HQ       | Headers used by usq.                                                                                                                                                                                       |
| CG16.42 | 2k   | UTR.CQ       | Functions used by usq.                                                                                                                                                                                     |
| CG16.43 | 8k   | XPR.C        | File xfer via cp/m punch and reader.                                                                                                                                                                       |

## Description: Compiler utilities

| Number | Size | Name         | Comments                                                                                                                                                                           |
|--------|------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CG17.  | 2    | #CATALOG.017 | This file.                                                                                                                                                                         |
| CG17.  | 2    | #HISTORY.017 | Credits/background.                                                                                                                                                                |
| CG17.  | 8    | CB.C         | Pretty-printer for C Programs.                                                                                                                                                     |
| CG17.  | 4    | CHARIO.C     | Char. oriented file i/o.                                                                                                                                                           |
| CG17.  | 3    | CP.C         | Makes copy of a file in the current directory.                                                                                                                                     |
| CG17.  | 8    | DIO45.C      | Dio v. 1.45, removes certain bugs.                                                                                                                                                 |
| CG17.  | 1    | DIO45.H      | Header file for above.                                                                                                                                                             |
| CG17.  | 1    | JCATALOG     |                                                                                                                                                                                    |
| CG17.  | 20   | L2.C         | An improved linker for BDS C CRL format.                                                                                                                                           |
| CG17.  | 16   | L2.DOC       | It eliminates the jump table at the beginning of each function in the object code, thus saving up to 10% or so in code space with a slight improvement in speed.                   |
| CG17.  | 19   | MAKOV.L.C    | This is a variation on L2.C that creates relocatable overlays according to an overlay descriptor file.                                                                             |
| CG17.  | 16   | M4.COM       | Com file for the meta4 package.                                                                                                                                                    |
| CG17.  | 2    | META4.DOC    | META*. * Dr. W.A. Gales META4 compiler-                                                                                                                                            |
| CG17.  | 7    | META4.M4     | compiler from DDJ, August -81. There are                                                                                                                                           |
| CG17.  | 6    | META4.MET    | .SUB files included to compile                                                                                                                                                     |
| CG17.  | 8    | META40.C     | and link, and a .DOC file on usage.                                                                                                                                                |
| CG17.  | 1    | META40.H     | Converted to bds c by Jan Larsson.                                                                                                                                                 |
| CG17.  | 7    | META41.C     |                                                                                                                                                                                    |
| CG17.  | 7    | META42.C     |                                                                                                                                                                                    |
| CG17.  | 2    | META43.C     |                                                                                                                                                                                    |
| CG17.  | 1    | META4COM.SUB |                                                                                                                                                                                    |
| CG17.  | 1    | META4LNK.SUB |                                                                                                                                                                                    |
| CG17.  | 3    | NOBOOT.C     | Alters bds c prog. so that it saves ccp, returning without warmboot after execution.                                                                                               |
| CG17.  | 4    | SCOTT.C      | Scott Layson's personal miscellaneous-function library, use with l2, makovl.                                                                                                       |
| CG17.  | 3    | USERCODE.C   | Extend the filename syntax for user with ALL file I/O to allow a user area prefix of the form "n/" on all filenames.                                                               |
| CG17.  | 21   | XC.C         | A cross-reference utility for 'C' programs. Its has the ability to handle nested include files to a depth of 8 levels and properly processes nested comments as supported by BDS C |
| CG17.  | 1    | XC.DOC       | Documentation                                                                                                                                                                      |

| File         | Author       | Comments                                                                    |
|--------------|--------------|-----------------------------------------------------------------------------|
| #catalog.019 |              | this file                                                                   |
| contents.not | mwm          | origin of this file and #history.019                                        |
| #history.019 |              | credits, mostly                                                             |
| local.h      | mwm & sk     | include file for stuff by mwm & sk                                          |
| local.c      | mwm & sk     | random routines used by mwm & sk                                            |
| if.c         | sb           | conditionally execute commands in submit files                              |
| plot.c       | mwm          | code for using the espon mx-80 graftrax bit graphics features               |
| plot.h       | mwm          | globals for plot code                                                       |
| plot.inc     | mwm          | include file for plot code                                                  |
| ldir.c       | tj           | directory lister, flavor # 1                                                |
| zdir.c       | tj           | directory lister, flavor # 2                                                |
| sdir.c       | sb           | directory lister, flavor # 3                                                |
| ddir.c       | tj           | directory lister, flavor # 4                                                |
| fc.b.h       | ?            | used by various and sundry things on the disk                               |
| sh.c         | sb           | a "shell" for cp/m                                                          |
| sh.doc       | sb           | documentation on the shell                                                  |
| sh.not       | sb           | implementation note on the shell                                            |
| doglob.c     |              | Withdrawn. Unable to verify that it was properly in the public domain.      |
| doglob.h     | sb           | include file for the above.                                                 |
| setup.c      | mwm          | sets up the function keys on a teleray 10                                   |
| tl370.c      | Ken Lonquest | telnet modified to talk to IBM's TSO (time-wasting online) system           |
| call.c       | mwm          | "smart" callout for the hayes stack smartmodem                              |
| system.dat   | mwm          | sample date file for call.c                                                 |
| more.c       | mwm          | paging file lister                                                          |
| fseek.c      | mwm          | a kludgey seek for buffered i/o. Used by more.c                             |
| xd.c         | mwm          | a file dumper. Much nicer than dump.                                        |
| tel.c        | tj           | a VERY souped up version of telnet.                                         |
| date.c       | mwm          | code to read the computime clock board.                                     |
| dateup.c     | mwm          | code to update the computime clock board                                    |
| clock.h      | mwm          | include file for date*.c                                                    |
| dsw.c        | tj           | Delete From Switches. A selective file remover                              |
| cc.c         | mwm          | a command driver for the C compiler                                         |
| files.c      | tj           | used by various & sundry things                                             |
| fstat.c      | sb           | "stat" of a disk file. Used by various & sundry                             |
| l2.c         | sk           | a version of the l2 linker with bug fixes, & enhancements for use with MP/M |
| bdsciol.h    | tj           | used by various things of tj's                                              |
| flakey.dat   | James Jones  | test data for the plot code.                                                |