INDHOLD AF
BRANDSKAB DVBS1
MEDIEGRUPPE SW50070

Opdateret 1994-01-24 / LEJ

IDENTIFIKATION	DATO	INIT	KOMMENTARER
DVBS1.SW50070.rel.1.0-1	930617	LEJ	MegaSwitch Development Toolset
DVBS1.SW50070.rel.1.0-2	930617	LEJ	MegaSwitch Development Toolset
DVBS1.SW50070.rd.1.0-1	930617	LEJ	MegaSwitch Development Toolset
DVBS1.SW50070.src.1.0-1	930617	LEJ	Shell script
DVBS1.SW50070.rel.1.1-1/2	940124	LEJ	MegaSwitch Development Toolset
DVBS1.SW50070.rel.1.1-2/2	940124	LEJ	MegaSwitch Development Toolset
DVBS1.SW50070.rd.1.1-1	940124	LEJ	Henvisning til SW50050 rel 4.1

DANOSI

Package Description

MegaSwitch Development Toolset

SW50070
Release 1.0, 93.06.15
DANOSI

Contents

- 2 Diskettes
- 2 Manuals
- 1 Set of slides (paper copy)
- 1 Package Description (this document)

Purpose

This package contain the development toolset to be used for development of Real Time Pascal programs that can be executed on MAC241 and MAC242 controllers.

Reason for Release

First release.

Requirements

SW50070 requires:

- Unix workstation
- Vpix
- SW2114 Real Time Pascal Compiler
- SW51020 RcPAX ISO Presentation Layer
- Occam 2 Toolset from INMOS and appropriate development board
- SW50050 MegaSwitch Basic Software, rel 4.0
- SW51100 MegaSwitch Interworking, rel 4.0

Identification of Files

vpix setup files:
  vpix/autoexec.bat
  vpix/vpix.cnf
  vpix/vpix1.cnf
  vpix/vpix2.cnf
  vpix/vpix3.cnf

Shell scripts etc used by makefiles:
  util/submake
  util/crm
  util/evenlen.com
  util/dos
  util/do.bat
  util/tdsreserve
  util/tdsrelease
  util/tdsb
  util/tdsc
  util/floppy
  util/mak
  util/rtppar
  x25/rtplink.vii
  x25/awkp

Unix makefiles:
  x25/makefile

Mxt-stub:
  x25/mxtocc.l4h
  x25/mxtrtp.l4h
  x25/mxt.t4h
  x25/mxt.pgm

PI-5 runtime system:
  rtp/system/rtp.lib
  rtp/system/rtp2.lib

Basic software modules:
  locon/localcon.t4h
  linecon/lineconn.t4h
  linecon/modemhan.t4h
  linecon/measureh.t4h
  library/linkbus.lib

library/megarout.lib
dce/mopsys.t4h
dce/lcpfunc.t4h
dce/ml.t4h
dce/mbxlink.t4h
dce/em02.t4h
dce/double.t4h
dce/paxzone.t4h
mega3502/mbxlink.t35

Basic RTP envirronments:
paxenv/sys5000.env
paxenv/double.env
paxenv/io.env
paxenv/net.env
paxenv/em02.env
paxenv/xrou.env
paxenv/xcs.env
paxenv/cs.env
paxenv/xscc.env
paxenv/dis.env
paxenv/ats.env
paxenv/hdlc.env

PI-5 Utilities:
rtp/rtplink.com
rtp/rtptrace.com
rtp/rtpvers.com

Documentation

- RC5000 MegaSwitch, System and Router Software, Reference Manual, june 1991. PN: 99001338. This manual gives a functional description of the software modules included. Futhermore a detailed description of the RTP programming-interfaces are given.

- Slides from "BNK-Temadag om MegaSwitch Udviklingsomgivelser hos KTAS, 911128". These slides gives an overview of the use of this package.

- EM Programmers Guide,12/12 1988, RCA.PAXNET.OER/NRH.195.

Corrections and Enhancements

First release.

Limitations and Recommendations

The software modules included corresponds to the software modules of SW50512 rel 3.0.

Together with MegaSwitch X.25/X.75 Access software sources it is possible to generate mxt.btl corresponding to the file included in SW50512 rel 3.0.

The file mxt.btl can be generated by calling "make" in the /usr/mega/x25 directory. The compiled files from X.25/X.75 access software are assumed to be present.

The makejob is functioning with SW2114 rel 2.2, the toolset D705B from INMOS and SW95707I VP/ix Multi-user Release 1.2 from ICL DATA with the following configuration.

The vpix setup files are included for information only. Four different configurations are used in this setup:

- vpix.cnf use no special devices.
- vpix1.cnf use A: as floppy drive.
- vpix2.cnf use TDS device. TDS is defined as a nonstandard device.
- vpix3.cnf use TDS3 device. TDS3 is defined as a nonstandard device.

By means of shell scripts using this configuration, a user is able to use different devices dependent of the purpose. Especially it is possible to use 2 inmos development boards at

the same time.

A number of shell scripts etc. are used by the makefiles:

- submake: activates a makefile in a subdirectory.
- crm: conditional remove. If the files does not exits no error message is generated.
- evenlen.com: DOS program that if necessary extends a .btl file to have even length to overcome problems in the RC8000 plib programs.
- dos: executes the following command (normally "do") and removes the file $1.ok (normally "do.ok") if no errors have occured.
- do: DOS batchjob, executes the following command (DOS program), writes "OK" in the file do.ok if the command is executed succesfully, and finally vpix is terminated.
- tdsreserve: reserves the tds system given in parameter $1.
- tdsrelease: releases the tds system given in parameter $1.
- tdsb: executes the following command with reservation of the tds system and use vpix3.cnf configuration. After use the tds system is released. This scheme assures that a makejob is never stopped, because the tds system is used by someone else.
- tdsc: corresponds to tdsb, but uses vpix2.cnf configuration.
- floppy: corresponds to tdsb, but uses vpix1.cnf configuration.
- mak: executes makejob and prints output on both screen and the file named by parameter $1.
- rtppar: used for generation of .rci filer (RTP parameter files).
- rtplink.vii: command to vi editor, changes extention from .c4h to .t4h on a list of files.
- awkp: command to awk, anvendes ved generering af filen mxtmem.inc til at finde den rigtige adresse fra filen mxt.map.

The PI-5 utilities comprise:

- rtplink: "links" all lbdr chains of RTP programs so they can be used as input for ilink.
- rtptrace: takes a dump as input and prints a stacktrace for an exception if a such have occured.
- rtpvers: prints version and date for for compiled RTP programs.

Installation

The directory /usr/mega must be the home directory of users using the development toolset.

All software must be installed in the directory /usr/mega and in the subdirectory defined in the Identification of files section.

The files tdsreser.ve and tdsrelea.se must be renamed to tdsreserve and tdsrelease respectively.

All shell scripts in the util directory must be set to have execute permissions.

The Occam 2 toolset must be installed in the directory /usr/mega/itools.

The RTP compiler must be installed in the directory /usr/mega/rtp.

DVBS1.SW50070.rel.1.0-1

DANOSI

Releasestyringsdokument

SW-pakke identifikation		
SW50070 MegaSwitch Development Toolset		
Release	**Ansvarlig**	**Dato**
1.0	LEJ	930615

Indledning

I alt væsentligt håndteres SW50070 sammen med SW50050 og SW51100 og dette releasestyringsdokument henviser derfor til det tilsvarende releasestyringsdokument for SW50050 rel 4.0.

Da SW50070 rel 1.0 er genereret senere end SW50050 rel 4.0 er der enkelte forskelle, som er beskrevet her.

Genereringssystem

Samme som SW50050 rel 4.0.

Kildetekster

Samme som SW50050 rel 4.0.

Generering

Når SW50050 og SW51100 er genereret, som beskrevet under pakkegenerering punkt 1-8 i releasestyringsdokumentet for SW50050, er SW50070 samtidig genereret og der mangler nu kun kopiering til disketter.

mcpudvomg er et shell script, der kopierer indholdet af SW50070 over på 2 DOS-formaterede disketter.

Specifikationsdokumenter

Samme som SW50050 rel 4.0.

Vedligeholdelsesdokumenter

Samme som SW50050 rel 4.0.

Arkivkopi

Samme som SW50050 rel 4.0.

Desuden indeholder disketten mærket "SW50070 Shell script til generering" jobbet til generering af disketterne.

Testværktøjer

Samme som SW50050 rel 4.0.

Bemærkninger

Ingen.

MegaSwitch Development Toolset

SW50070
Release 1.1
931027
DANOSI

Contents

- 2 Diskettes
- 2 Manuals
- 1 Set of slides (paper copy)
- 1 Package Description (this document)

Purpose of package

This package contain the development toolset to be used for development of Real Time Pascal programs that can be executed on MAC241 and MAC242 controllers.

Reason for Release

Correction of errors.

Requirements

SW50070 requires:

- Unix workstation
- Vpix
- SW2114 Real Time Pascal Compiler rel 2.19
- SW51020 RcPAX ISO Presentation Layer
- Occam 2 Toolset from INMOS and appropriate development board
- SW50050 MegaSwitch Basic Software, rel 4.1
- SW51100 MegaSwitch Interworking, rel 4.1

If SW50070 is used in a DOS envirronment, the shell scripts and the makejob cannot be used.

Documentation

- RC5000 MegaSwitch, System and Router Software, Reference Manual, june 1991. PN: 99001338. This manual gives a functional description of the software modules included. Futhermore a detailed description of the RTP programming-interfaces are given.

- Slides from "BNK-Temadag om MegaSwitch Udviklingsomgivelser hos KTAS, 911128". These slides gives an overview of the use of this package.

- EM Programmers Guide,12/12 1988, RCA.PAXNET.OER/NRH.195.

Corrections and Enhancements

Changes since release 1.0:

LineConnector and LinkBus is updated as described in the package description af SW51100 rel. 4.1.

DES-descriptions of relevant modules are included. All are updated since sw50512 rel. 3.0.

The requestset zmacc.r8z is included.

All basic RTP envirronments are updated. sys5000.env is not included any more.

Filename extension of precompiled RTP programs are changed to .tah for execution on transputer part and .t22 for execution on RC5000 CPU respectively. Thus also the file x25/makefile have changed and the file mxtrtp.lah are used instead of mxtrtp.l4h.

931015.1: NCP poll of RTP LCPs did not function because of an error in Mopsys.

Limitations and Recommendations

The file mxt.btl can be generated by calling "make" in the /usr/mega/x25 directory. The compiled files from X.25/X.75 access software are assumed to be present.

The makejob is functioning with SW2114 rel 2.19, the toolset D705B from INMOS and SW95707I VP/ix Multi-user Release 1.2 from ICL DATA with the following configuration.

The vpix setup files are included for information only. Four different configurations are used in this setup:

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- vpix2.cnf use TDS device. TDS is defined as a nonstandard device.
- vpix3.cnf use TDS3 device. TDS3 is defined as a nonstandard device.

By means of shell scripts using this configuration, a user is able to use different devices dependent of the purpose. Especially it is possible to use 2 inmos development boards at the same time.

A number of shell scripts etc. are used by the makefiles:

- submake: activates a makefile in a subdirectory.
- crm: conditional remove. If the files does not exits no error message is generated.
- evenlen.com: DOS program that if necessary extends a .btl file to have even length to overcome problems in the RC8000 plib programs.
- dos: executes the following command (normally "do") and removes the file $1.ok (normally "do.ok") if no errors have occured.
- do: DOS batchjob, executes the following command (DOS program), writes "OK" in the file do.ok if the command is executed succesfully, and finally vpix is terminated.
- tdsreserve: reserves the tds system given in parameter $1.
- tdsrelease: releases the tds system given in parameter $1.
- tdsb: executes the following command with reservation of the tds system and use vpix3.cnf configuration. After use the tds system is released. This scheme assures that a makejob is never stopped, because the tds system is used by someone else.
- tdsc: corresponds to tdsb, but uses vpix2.cnf configuration.
- floppy: corresponds to tdsb, but uses vpix1.cnf configuration.
- mak: executes makejob and prints output on both screen and the file named by parameter $1.

- rtppar: used for generation of .rci files (RTP parameter files).
- rtplink.vii: command to vi editor, changes extention from .c4h to .t4h on a list of files.
- awkp: command to awk, used for generation of the file mxtmem.inc to find the right addresss from the file mxt.map.

The PI-5 utilities comprise:

- rtplink: "links" all lbdr chains of RTP programs so they can be used as input for ilink.
- rtptrace: takes a dump as input and prints a stacktrace for an exception if a such have occured.
- rtpvers: prints version and date for for compiled RTP programs.

Installation

The directory /usr/mega must be the home directory of users using the development toolset.

All software must be installed in the directory /usr/mega and in the subdirectory defined in the Identification of files section.

The files tdsreser.ve and tdsrelea.se must be renamed to tdsreserve and tdsrelease respectively.

All shell scripts in the util directory must be set to have execute permissions.

The Occam 2 toolset must be installed in the directory /usr/mega/itools.

The RTP compiler must be installed in the directory /usr/mega/rtp.

Identification of Files

readme file:
  readme50.070

vpix setup files:
  vpix/autoexec.bat
  vpix/vpix.cnf
  vpix/vpix1.cnf
  vpix/vpix2.cnf
  vpix/vpix3.cnf

Shell scripts etc used by makefiles:
  util/submake
  util/crm
  util/evenlen.com
  util/dos
  util/do.bat
  util/tdsreserve
  util/tdsrelease
  util/tdsb
  util/tdsc
  util/floppy
  util/mak
  util/rtppar
  x25/rtplink.vii
  x25/awkp

Unix makefiles:
  x25/makefile

Mxt-stub:
  x25/mxtocc.l4h
  x25/mxtrtp.lah
  x25/mxt.t4h
  x25/mxt.pgm

PI-5 runtime system:
  rtp/system/rtp.lib
  rtp/system/rtp2.lib

Basic software modules:
  locon/localcon.t4h
  linecon/lineconn.t4h
  linecon/modemhan.t4h
  linecon/measureh.t4h
  library/linkbus.lib
  library/megarout.lib
  dce/mopsys.tah

dce/lcpfunc.tah
dce/ml.tah
dce/mbxlink.tah
dce/em02.tah
dce/double.tah
dce/paxzone.tah
mega3502/mbxlink.t22

Basic RTP envirronments:
paxenv/double.env
paxenv/io.env
paxenv/net.env
paxenv/em02.env
paxenv/xrou.env
paxenv/xcs.env
paxenv/cs.env
paxenv/xscc.env
paxenv/dis.env
paxenv/ats.env
paxenv/hdlc.env

PI-5 Utilities:
rtp/rtplink.com
rtp/rtptrace.com
rtp/rtpvers.com

DES-files:
des/mtlocalc.d8d
des/mbxlink.d8d
des/megalink.d8d
des/mopsys.d8d

Requestsets:
reqset/zmacc.r8z

The version numbers of the occam modules included in sw50070 is:

LocalConnector	2.5
LineConnector	4.11

See also next page.

The version numbers of the RTP modules for the transputer part is:

name	source date	object date	version
mopsys	1993.10.07:11.06	1993.10.07:11.09	1.15
megalink	1991.05.02:13.52	1993.09.29:10.19	0.0
mbxlinkinit	1991.05.02:13.52	1993.09.29:10.20	0.0
mbxlinkcreat	1991.05.02:13.52	1993.09.29:10.20	0.0
mbxlinksend	1991.05.02:13.52	1993.09.29:10.20	0.0
mbxlinkrecei	1991.05.02:13.52	1993.09.29:10.20	0.0
emanswermess	1992.02.04:13.40	1993.09.29:10.22	2.40
emfreeevents	1992.02.04:13.40	1993.09.29:10.22	2.40
emsender	1992.02.04:13.40	1993.09.29:10.22	2.40
emprepareeve	1992.02.04:13.40	1993.09.29:10.22	2.40
emsendspoolp	1992.02.04:13.40	1993.09.29:10.22	2.40
emsendevents	1992.02.04:13.40	1993.09.29:10.22	2.40
emreceivemes	1992.02.04:13.40	1993.09.29:10.22	2.40
eminitrc	1992.02.04:13.40	1993.09.29:10.22	2.40
emspoolevent	1992.02.04:13.40	1993.09.29:10.22	2.40
emwaithardev	1992.02.04:13.40	1993.09.29:10.22	2.40
emterminate	1992.02.04:13.40	1993.09.29:10.22	2.40
emabort	1992.02.04:13.40	1993.09.29:10.22	2.40
emsnooping	1992.02.04:13.40	1993.09.29:10.22	2.40
emsnoopevent	1992.02.04:13.40	1993.09.29:10.22	2.40
emoldtonewma	1992.02.04:13.40	1993.09.29:10.22	2.40
doubleadd	1991.05.02:13.52	1993.08.17:09.11	0.0
doublediv	1991.05.02:13.52	1993.08.17:09.11	0.0
doublelt	1991.05.02:13.52	1993.08.17:09.11	0.0
doubleint	1991.05.02:13.52	1993.08.17:09.11	0.0
doubleuint	1991.05.02:13.52	1993.08.17:09.11	0.0
intdouble	1991.05.02:13.52	1993.08.17:09.11	0.0
uintdouble	1991.05.02:13.52	1993.08.17:09.11	0.0
doublemadd	1991.05.02:13.52	1993.08.17:09.11	0.0
doublemod	1991.05.02:13.52	1993.08.17:09.11	0.0
doublemsub	1991.05.02:13.52	1993.08.17:09.11	0.0
doublemul	1991.05.02:13.52	1993.08.17:09.11	0.0
doublesub	1991.05.02:13.52	1993.08.17:09.11	0.0
doubledec	1991.05.02:13.52	1993.08.17:09.11	0.0
doubleinc	1991.05.02:13.52	1993.08.17:09.11	0.0
lcpinc	1991.05.02:13.52	1993.09.29:10.19	2.0
lcptyp	1991.05.02:13.52	1993.09.29:10.19	2.0
lcpidtoint	1991.05.02:13.52	1993.09.29:10.19	2.0
inttolcpid	1991.05.02:13.52	1993.09.29:10.19	2.0
typinctolcpi	1991.05.02:13.52	1993.09.29:10.19	2.0
initpaxzone	1991.05.28:17.02	1993.09.29:10.20	0.0
getpaxsem	1991.05.28:17.02	1993.09.29:10.20	0.0
freepaxsem	1991.05.28:17.02	1993.09.29:10.20	0.0
syncpaxopsys	1991.05.28:17.02	1993.09.29:10.20	0.0
gethdlcline	1991.05.28:17.02	1993.09.29:10.20	0.0
initpaxname	1991.05.28:17.02	1993.09.29:10.20	0.0
getnetaddr	1991.05.28:17.02	1993.09.29:10.20	0.0

```
pliblook mbxlink.t22
```

nr	kind	name	source date	object date	version	bytes
1	PROGRAM	mbxlink	1991.11.14:12.09	1993.09.29:13.48	1.5	9924

DVBS1.SW50070.rd.1.1-1

Releasestyringsdokument

24-01-94/Jnr:20-LEJ-323/4

SW-pakke identifikation		
SW50070		
Release	**Ansvarlig**	**Dato**
1.1	LEJ	1994-01-24

Henvisning

SW50070 Rel. 1.1 er behandlet sammen med SW50050 Rel. 4.1.