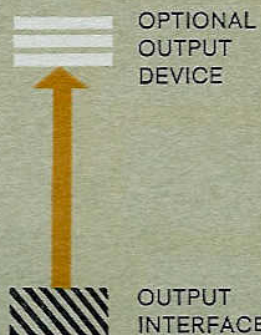
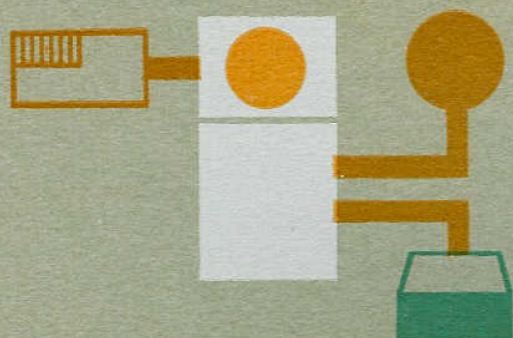


GIER SYSTEM – Typical Extension

RC 3000

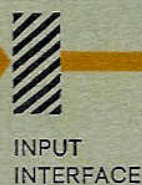
Example of Off-Line Conversion



RC 2000

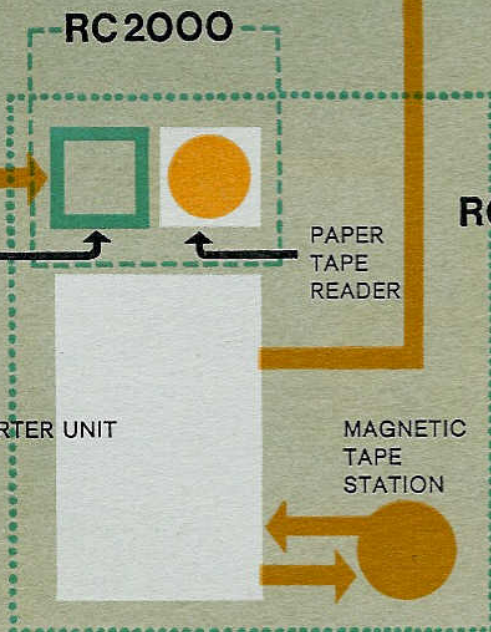


ALTERNATIVE INPUT DEVICE



INPUT INTERFACE

SERVO INPUT BUFFER SYSTEM



RC 3000

RC 3000

Organization of Conversion Process

SUMMARY

GIER Computer compact, general purpose digital computer – ALGOL 60 compiler, flexible operating system – binary, parallel operation with 6.6 μ s cycle time
 60 single-address instructions – built-in floating-point arithmetic, automatic address modification, indexing
 simultaneous drum/disk file and magnetic tape operations – buffered input/output, interrupt facility, open-ended design
 central processor: immediate access core store of 1024 words – word length: 40 bits + 2 flag bits – instruction execution times from 29 μ s to 267 μ s

Secondary Storage	Type	Capacity	Transfer Time	Number
	magnetic drum store, random access	320 tracks of 40 words = 12,800 words	20 ms/track	3
	magnetic disk file, random access	9600 blocks of 40 words = 384,000 words	3 ms/block	4
	buffer store	core store of 4096 words	7 and 15 μ s/word	1

Peripherals	Type	Speed	Number
	off-line perforator typewriter	8–12 char/sec	–
	on-line monitor typewriter	8–12 char/sec	1
	paper tape punch	150 char/sec	1
	paper tape reader, photo-electric	2000 char/sec	2
	punched card reader, pneumatic	1600 cards/min	1
	magnetic tape station	28,800 char/sec*	4
	line printer	667 lines/min	1
	converter, off-line, multi-directional	2000 char/sec**	–
	hybrid computer linkage equipment	60 μ s***	–
	data logging system	10,000 ch/sec****	–

* at 800 char/inch (36 inches/sec)
 ** conversion from paper tape to magnetic tape
 *** conversion time – analog input channels
 **** peak scanning speed – analog inputs, fast-scan group

Software ALGOL 60 compiler (GIER ALGOL IV)
 utility program system (HELP) with symbolic loader program (SLIP) and numerous other debugging aids
 comprehensive information service (GIER System Library) with descriptions and tapes of programs and subroutines, books, reports, and surveys – literature and program tapes include: general information, service routines, basic data processing, mathematics, mathematical statistics, operational research, science and engineering, and business applications

Typical Installation Requirements*
 area: 50 m² minimum
 weight: 2600 kg (700 kg/m² floor load)
 power: 9 kW maximum
 air temperature: 18–23° C
 relative humidity: 40–60 %
 * based on central processor with 1 drum, console with basic peripherals, buffer store, 4 tape stations, card reader, and line printer

General The GIER Computer is supplied with an operator's console and a ready-to-use package.
 Extra options include connection of digital increment plotter, real-time clock, or MICR reader.
 The price includes installation. The six months' warranty covers training, programming, and technical service, and in addition to this, extensive customer and maintenance service is available by contract.

A/S REGNECENTRALEN
 FALKONERALLE 1
 COPENHAGEN F. · DENMARK

A/S SCANIPS
 SORGENFRIGATE 11
 OSLO · NORWAY

ING.UGO DE LORENZO & C.
 VIA BELLARMINO 29
 MILAN · ITALY

GIER ELECTRONICS GmbH
 SCHILLERSTRASSE 33
 3000 HANNOVER · GERMANY

SPECIFICATION

LIST OF SPECIFICATIONS

GENERAL INFORMATION

A/S Regnecentralen
References
List of Specifications
Summary
Computer and Converter Configurations

GIER
ELECTRONICS

GENERAL INFORMATION

HARDWARE

GIER Console
GIER Computer
Disk File
Buffer Store
Paper Tape Punch
Paper Tape Reader
Punched Card Reader
Magnetic Tape Station
Line Printer
Converter
Hybrid Computer Linkage Equipment
Data Logging System



on-line typewriter



tape punch



tape reader



central processor



drum store



disk file



buffer store



card reader



tape station



line printer



converter



plotter/real-time
clock/MICR reader



hybrid computer
linkage equipment
(data logging system)

SOFTWARE

GIER ALGOL Compiler
HELP Administrative System
SLIP Input Program
GIER System Library
Selected Execution Times in GIER ALGOL
Correlation of Bits with Integers and Decimal Digits
Magnetic Tape Utilization
Table of Codes

Configurations (inside)

Summary (back)



GIER

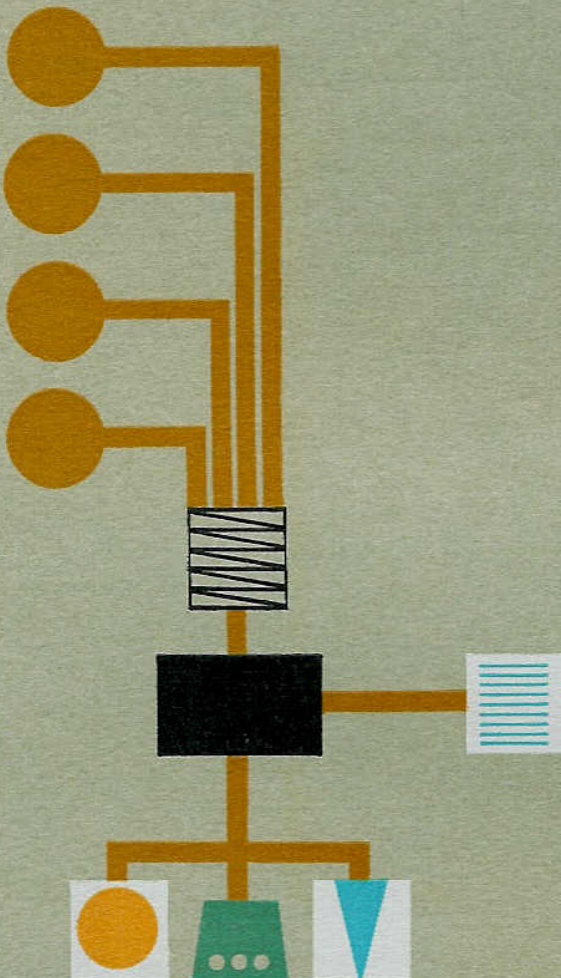
ELECTRONICS

COMPUTER and CONVERTER CONFIGURATIONS

GIER-DISK



GIER Standard with Three-Drum Unit



GIER-DISK with Magnetic Tape

GIER-DISK with Printer and Additional Disk Files

