



Technical Summary of the ICL 2950 Processor System

Number of OCP's	1 or 2 per system (VME/K); 1 per system (DME/3)
Post Office Work Unit 2	5.0 milliseconds (VME/K); 5.5 millisecc. (DME/3)
Store Control Units (SCU)	1 or 2 per system (VME/K); 1 per system (DME/3) second CCP required with 2 SCU's
Main Store Size	256 K bytes to 2 M bytes (to 1 M byte for DME/3) second SCU required for over 1 M bytes.
Store Block Cycle Times	Read : 700 nanoseconds for 8 bytes Write: 750 nanoseconds for 8 bytes Partial write : 900 nanoseconds for 8 bytes.
Peak Data Throughput	10 million bytes/second per Store Control Unit (SCU)
Device Control Units (DCU)	1 or 2 per system
Peak instantaneous data transfer rates per Device Control Unit(DCU)	2 million bytes/second (maximum) (sustainable transfer rates are lower)
Order Code Processor (OCP)	Microprogrammed : can run full 2900 series order code and/or 1900 order code
Operating Systems	VME/K, DME/3
<u>Peripherals connected (via DCU)</u>	
Operating Devices OPER	Operating Station with interactive display keyboard and System Control Processor for engineer's use
Bulk Input Devices	
CR-1000	Card Reader - 1000 cards/minute
CR-300	Card Reader - 300 cards/minute
xCR-100	Card Punch - 100 cards/minute
xPTR-1500	Paper Tape Reader - 1500 characters/sec.
xPTP-110	Paper Tape Punch - 110 characters/sec.
1916	1900 Paper Tape Reader - 1000 characters/sec (DME/3 only)
1925	1900 Paper Tape Punch - 110 characters/sec (DME/3 only)
Printers	
LP-1500	Printer - 1500 lines/minute (using 48 character set)
LP-720	Printer - 720 lines/minute (using 48 character set)
x2409	1900 printer - 600 lines/minute (using 48 character set)
2430	1900 printer - 1500 lines/minute (using 48 character set)
xDigital Plotter	

Magnetic Tape Decks

MT-200	9-track, phase encoded - 200 K bytes/second * NRZI-100 K bytes/sec.
MT-120T	9-track, phase encoded - 120 K bytes/second * NRZI- 60 K bytes/sec.
MT-60	9-track, phase encoded - 60 K bytes/sec. NRZI- 30 K bytes/sec.
MT-30	7-track, NRZI-200, 556 or 800 bits per inch.
2508	1900 MT, 9-track, phase encoded - 60 K bytes/sec.
2509	1900 MT, 9-track, phase encoded -120 K bytes/sec.
2510) 2511)	1900 MT's, 9-track, phase encoded - 60 K bytes/sec. NRZI - 30 K bytes/sec.
*1972) *1973)	1900 MT's, 7-track, NRZI-200 and 556 and 800 bits per inch.

Replacable Disc Stores

EDS-200	200 M bytes capacity, av. access time 38.3 m secs, transfer rate 806 K bytes/sec.
EDS-100	100 M bytes capacity, av. access time 38.3 m secs, transfer rate 806 K bytes/sec.
EDS-80	80 M bytes capacity, av. access time 38.3 m secs, transfer rate 1.2 K bytes/sec.
EDS-60	60 M bytes capacity, 1900 disc stores
EDS-30	30 M bytes capacity, 1900 disc stores

Terminals

*2903/20) *2903/30) *2904) 7503) *System Ten) *1500)	As remote job entry devices
7502/10) 7503/15) 7503/20) 7503/25)	Modular Terminal Processor Systems

TTW, 1,2,3	Termiprinter & Tele-typewriters
7181/2	Video Display Unit
VDT-2000	Remote VDU

7574	Terminal Printer
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* Not supported by DME/3

Operating System VME/K

VME/K Base
VME/K MAC Feature
VME/K TP Feature

Data Management Software

Data Management System
Data Dictionary System
Database System (DDL-COBOL link)
DDL Translator

Data Management Utilities System	- Report Feature
	- Data Validate Feature
	- Update Feature
	- Extract Feature
	- Copy
	- Compare
	- Sort
	- Merge

Integrated Data Management System
(IDMS)

Compiling and Program Development Software

COBOL Compiling System
FORTRAN compiling System
FORTRAN G Compiling System

Optimising FORTRAN Compiling System

ALGOL Compiling System

ALGOL E Compiling System

BASIC Interactive Compiling System

RPG-2 Compiling System

Digital Plotting Procedures

Editor

Test Data Generator

Testing Envelope

Scientific Jobber

Commercial Library

Mathematical Library

General Library

Collector

Diagnostics

Transition Software

1900 File Transfer Utilities

1900 Data Converter

1900 COBOL source converter

1900 FORTRAN source converter

1900 ALGOL source converter

1900 Microprogrammed Emulation Environment (George 2)

370 File transfer Utility

370 COBOL source converter

Application Software

Numerical Algorithm Library (NAG)

Statistics Package

Forecasting

Matrix Handler

- PERT - Network Creating and Time Analysis
- Resource Analysis

PROSPER

Linear Programming

ACSL (Advanced Computer Simulation Language)

Structural Engineering

Interactive Data Handler

- Batched Data Capture
- File Enquiry
- Service Routines

CREDITS (Stock Control)

- Depot Ordering
- Branch Ordering
- Depot Stock Issue
- Depot Storage
- Goods Inwards

Material Control

- Provisioning
- Capacity Planning

Bills of Materials Processor (BOMP)

SLAM (Analogue Simulation)

Order Processing

Operating System DME/3

DME/3 Executive

DME/3 Batch Base

DME/3 MAC Option

DME/3 TP Option

DME/3 Communications Manager

Data Management Software

Data File Utilities

- file creation
- file maintenance
- data file re-organisation

- data file pointout
- program library creation
- program library maintenance

Media Maintenance Utilities

- utilisation reporting
- media copying
- media re-organisation
- media comparison

Sort/Merge Utilities

- general sort/merge
- sort/merge generator

FIND-2

Integrated Data Management Systems (IDMS)

Compiling and Program Development Software

COBOL compiling System
FORTRAN Compiling System
Optimising FORTRAN Compiling System
ALGOL Compiling System
BASIC Compiling System
Testing Envelope
Editor

Applications Software

Numerical Algorithm Library (NAG)
General Ledger Budget and Cost Analysis Accounting (LUCRE)
PERT - Network Creation and Time Analysis
- Resource Analysis

PROSPER

Linear Programming
Off-line Data Entry (SPODE)
Stock Control (SCAN 3)
Bill of Material Processor (BOMP)
SLAM (ANALOGUE SIMULATION)
On-line Manufacturing Control(OMAC)
On-line Order Entry
GENESYS

Numerical Control (NEL-APT)
GINO - F
2903 Stock Control
DATADRIVE (On-line data entry and enquiry)