Data Processing Service (SED) Division

Division Manager : Paolo Bronzoni

Staff
- Planning and Development : Francesco Carreras
- Data Transmission : Decio Iasilli
- Users : Emilio Stefanelli

The Division is composed of five Sections:

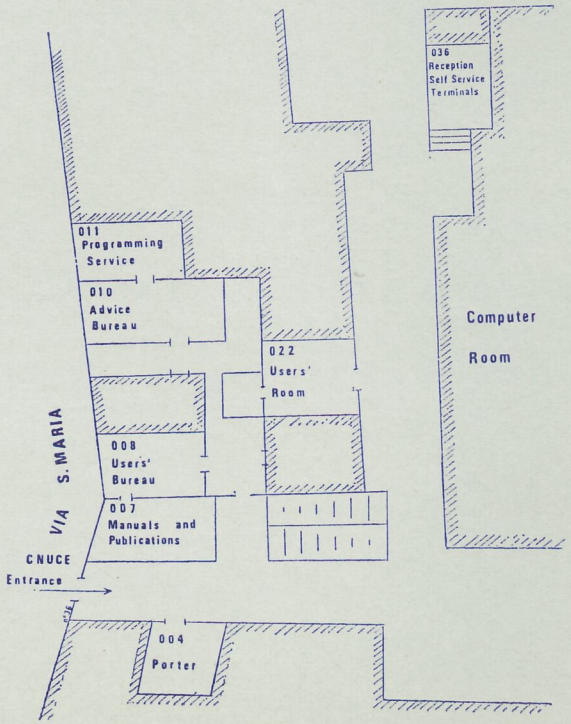
* **Operations** : Manager - Giuseppe Severino
  Concerned with the operation of both local and remote computer systems and the service procedures.

* **Systems** : Manager - Riccardo Medves
  Concerned with the study, setting up, installation, maintenance and development of the basic software, operating systems, languages and programs.

* **Applications** : Manager - Stefano Trumpy
  Concerned with the study and development of applied software in order to stimulate and to satisfy the user demand

* **Advising and Programming** : Manager - Umberto Mammini
  Concerned with the supplying of advice and assistance to the user and in writing programs upon user's request.

* **Didactics** : Manager - Alberto Foni
  Concerned with the organisation of courses and seminars both internally and upon user's request.



Offices for the Users

WHO (service)	HOW (tel.no)	WHEN (times)	WHERE (room)	WHY (requests)
Users' Bureau (G. Devoti, L. Ricci)	40118+ (answering service)	10.00 - 12.00 15.00 - 17.00	008	— requests for and acceptance of resources to be paid for (virtual machines, batch machine time, tapes, disk space, auxiliary material, etc). — indication of problems in the technical service (software and hardware) — enrollment to courses in program — forms available: C1 virtual machine, C2 special configuration appendix, C3 configuration change, C4 batch machine time, D1 magnetic supports, D2 OS disk space, D3 TP connection, E1 auxiliary material, F1 problem indication, F2 course enrollment.
Manuals and Publications (G. Previti)	45245/ 2161	10.00 - 12.00 15.00 - 17.00	007	— purchase of manuals and publications necessary for using the CNUCE computing systems
Advice Bureau (U. Mammini, P. Coli, F. Porinelli)	45245/ 2113	10.00 - 12.00 15.00 - 17.00	010	— requests for information on the use of the CNUCE computing systems, consultation of manuals, assistance in resolving problems
Programming Service (U. Mammini)	45245/ 2155	10.00 - 12.00 15.00 - 17.00	011	— requests for writing of programs and procedures upon payment, estimate given
User Relations Office (L. Bertoni)	45245/ 2120	10.00 - 12.00 15.00 - 17.00	207	— requests and registrations of new user codes, organisation of visits, courses not included in program, invoicing problems, requests not catered for by other offices. — forms available: A1 Characteristics of the Organisation, A2 Work code and nomination of Representative, B1 Nomination of authorised users, B2 Cancellation of work code, B3 Appendix for codes free of charge
TP Service	41387 (answering service)	8.00-24.000	Computer Room	— notices and information on unprogrammed interruptions of the service, system restart, break-down of connections, etc.

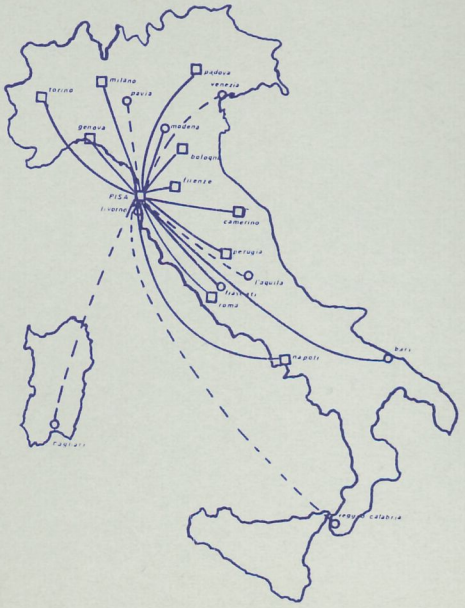
The resources requested at the Users' Bureau are made available in the following way:

Requests for:	Available:
Virtual Machines	The Monday following the request
Batch machine time	The Monday following the request
OS disk space	The day following the request
Magnetic supports	The day following the request
Auxiliary material (Paper, cards, etc.)	Immediately

The Data Processing Service of CNUCE

CNUCE

CNUCE, an Institute of the Italian National Research Council, (C.N.R.), is directed by Prof. G. Torrigiani. It provides, as is laid down in its Statutes, a data processing service for all the Institutes and Departments of the C.N.R., for University Institutes and also for various other organisations. The Data Processing Service is controlled by a Division of the same name and uses a central computer system with a distributed network.
This central structure consists of two IBM computers, a 370/168 and a 370/158, which are connected by a high speed line in order to allow the exchange of information, data and programs between them. The characteristics of this integrated computing system, which CNUCE offers to its users, are flexibility and high potentiality. The central nucleus of the two computers is surrounded by a distributed computing structure with batch and conversational components. This structure is made up of a group of specialised Satellite Centers and by a data transmission network which connects the terminals of individual users and the Remote Stations, (points of access to the service available to all users), to the central units.



BY
LETIZIA GORI / RICCARDO MEDVES
April 1976

Hardware

	370/158	370/168
Main Storage	1.5 MB	4.0 MB
Disks	6*3330/1 (600MB) 2*3330/1 (200MB) 4*3330/11 (800MB)	4*3330/1 (400MB) 12*3340 (840MB) 1*2305 (11MB)
Tapes	5*2401/2 (9T800BPI) 1*2041/2 (7T200/556/800BPI) 7*3420/3 (9T800/1600BPI) 2*3420/4 (9T1600/6250BPI)	
Special Units	1404 Calcomp Plotter-	3211 3525 Interpreter

Software

370/158 : OS/VS2-HASP — Virtual memory system for batch computing.

370/168 : VM-CMS-APL, CICS-STAIRS — Virtual memory system for interactive and batch computing.

RSCS — Multitask system to manage the BSC lines

REMOS — Remote HASP station, modified to manage the connection between the two computers.

Maintenance class	Assistance from Suppliers	Techinical Competence at CNUCE
A	YES	YES
B	YES	NO
C	NO	YES
D	NO	NO

Group	Product - Description	Cl.	OS	CMS
Algol	ALGOL-F	D	X	
	ALGOL-W	D	X	X
	PL360	D	X	X
Assembler	ASSEMBLER-H	A	X	X
	ASSEMBLER--VS/VM	A	X	X
Cobol	COBOL-ANS4	A	X	X
	COBOL Int. Deb.	A		X
Fortran	BASIC	B		X
	CALC	C		X
	FORTRAN-G1	A	X	X
	FORTRAN-H Extended	A	X	X
	FORTRAN Int Deb.	A		X
	WATFIV (Waterloo Fortran IV)	D	X	X
PL/1	PL/1-Checkout	A	X	X
	PL/1-F	C	X	
	PL/1-Optimizing	A	X	X
Simulation	CSMP-III (Continuous System Modeling Program)	B	X	
	DYNAMO	B		X
	GPSS-V (General Purpose Simulation System)	B	X	
	SIMULA-67	B	X	X
	SAAM (Simulation Analysis And Modeling)	D	X	
Statistical and Math. Progr.	BMD (Biomedical Computer Programs)	B	X	
	MPSX (Math. Programming System)	B	X	
	MSP (Multilinear Scaling Program)	D	X	
	NONLIN (Nonlinear Estimation of Parameters)	D	X	
	SAS (Statistical Analysis System)	D	X	
	SESAME	D		X
	SPSS (Statistical Package for the Social Sciences)	A	X	
	SSP-Fortran (Scientific Subroutines Package)	C	X	X
	SSP-PL/1 (Scientific Subroutines Package)	C	X	X
	STRUDL (Structural Design Language)	D	X	
Data base	DPS (Document Processing System)	D	X	
	KWIC (Keyword In Context Indexing Program)	D	X	
	STAIRS (Storage and Information Retrieval System)	A	X	
	WORDS	D	X	
Miscellaneous	APL	A		X
	INTER-LISP	B	X	X
	MAGMA-LISP	D		X
	NSCRIPT	A	X	X
	PLOTTER	C	X	
	SORT/MERGE	A	X	X
	XRAY	D	X	X

Services

370/158 OS/VS2-HASP :
- — local loading by the operator in the Reception Room.
- — local loading of the Self-Service reader by the user
- — sending of jobs from a terminal linked to the 168 by means of a virtual machine (REMOS) working under a modified HASP system.

370/168 VM-CMS-APL, CICS-STAIRS, RSCS-REMOS :
- — connection by means of users' own Start/Stop terminals
- — connection by means of CNUCE Start/Stop terminals in the Reception Room
- — remote connection by means of BSC terminals managed by the RSCS system

The two computers are connected by a high-speed TP line (40,000 bauds) and guarantee the access to all services independently of the user's actual physical location.

Self-Service :
- — direct loading of jobs for execution on the 370/158
- — jobs requiring less than 5 min. of CPU and 3,000 lines of print are printed on the Self-Service printer.
- — sending of jobs and files to the 168 by the / *SEND card.

Service Times :

Monday	14.00-24.00
Tuesday	8.00-24.00
Wednesday	8.00-24.00
Thursday	8.00-24.00
Friday	8.00-24.00

Documentation :
- — the Center publishes a review, « Rapporto », which appears every two months. This contains an updated list of the documentation on CNUCE, its computers and systems, and a series of technical information, notices and communications from the various Sections of the SED.
- — a procedure (INFORM) exists in both OS and CMS for the automatic re-call from disk of the most important information, the systems, languages and computers in production.
- — urgent information, the « message of the day », is registered directly on the output of every job (under OS) and is also sent to every terminal, on connection, (under CMS).