

# Offices for the Users

WHO (service)	HOW (tel. No)	WHERE (floor)	WHEN (times)	WHY (requests)
Manuals and publications (T. Previti)	593/261	ground floor	10.00 - 12.00 15.00 - 17.00	distribution of manuals and publications necessary for using the CNUCE computing systems
Users' Bureau (G. Devoti, L. Ricci)	593/257	ground floor	10.00 - 12.00 15.00 - 17.00	request of resources to be paid for (virtual machines, batch machine time, tapes, disk space, auxiliary material, etc.) indication of problems in the technical service (hardware and software) not included T. P. service (see below) request and registration of new users codes
Courses Bureau (E. Lofrese)	593/217	second floor	10.00 - 12.00 15.00 - 17.00	enrolment at courses being planned organization of visits
Advice Bureau (U. Mammì, F. Benedetti, P. Coli, G. Fresta)	593/213 255	ground floor	10.00 - 12.00 15.00 - 17.00	request for information on the use of the CNUCE computing systems, consultation of manuals, assistance in solving problems
Administration Bureau (R. Ferrini)	593/219	second floor	10.00 - 12.00 15.00 - 17.00	information about charging problems
T. P. Service (Operators)	41387 (answering service)	computer room	24 hours a day	news and information on unprogrammed interruptions of the service, system restart, break-down of connections, etc.
EURONET Service (R. Bartoli, G. A. Romano, O. Signore)	593/230 248 277 on line (2223069DCNUCE ? or H or HELP)	first floor	10.00 - 12.00 15.00 - 17.00 24 hours a day	latest news, services, contracts, databases, charges

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

- Request for:
- Available
  - the Monday following the request
  - the Monday following the request the day following the request
  - the day following the request immediately

Virtual Machines  
Batch machine time  
OS disk space  
Magnetic supports  
Auxiliary material (paper, cards etc.)

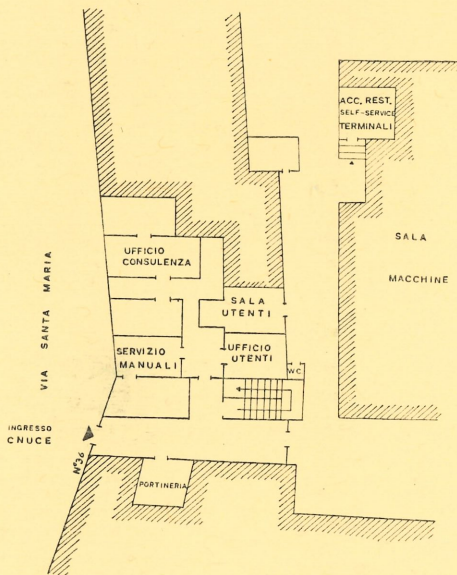
# Computing Service

The CNUCE Computing Service is made up of 4 Technical Services:

- Operations : concerned with the operative management of the Computer Systems, data transmission and the management of service procedures.
- Systems : concerned with the study, setting up, installation, maintenance and development of basic software, operating systems, languages and programs.
- Advice and assistance : concerned with supplying the user with advice and assistance.
- Planning and evaluation : concerned with maintaining the information system of the computer resources, as well as with the analysis and evaluation of the systems installed and of the products on the market.

And a group concerned with network support, with maintaining and developing the network service, advertising the existence of the relevant software and providing support for the various nodes.

Those responsible for the four technical services described above form the "Service committee" whose job it is to organically coordinate the Computer Service for the users.



**CNUCE**  
VIA S. MARIA, 36  
I - 56100 PISA (ITALY)

TEL. (050) 593111  
TELEX 500371

Mr. .... gave me this brochure  
tel. (050) 5932 .....

# The Data Processing Service of CNUCE

**CNUCE**

CNUCE, an Institute of the Italian National Research Council (C.N.R.), carries out research in the field of information science and provides, as is laid down in its statute, a data processing service for the other Institutes and Departments of the C.N.R., as well as for University Departments and other organizations. The Data Processing Service is based on a central computing system and a distribution network. The central system consists of two IBM computers, a 3033N and a 370/168, which are connected by a Channel To Channel Attachment, in order to allow them to exchange information, data and programs.

Users may be connected to a traditional Tele Processing network with intelligent and non intelligent terminals, installed on the users' own premises. The same structure also enables them to be connected to a computer network (RPCNET) designed and set up by CNUCE in cooperation with other organizations. This is a packet switching network linking together various computers (nodes) located in different parts of Italy.

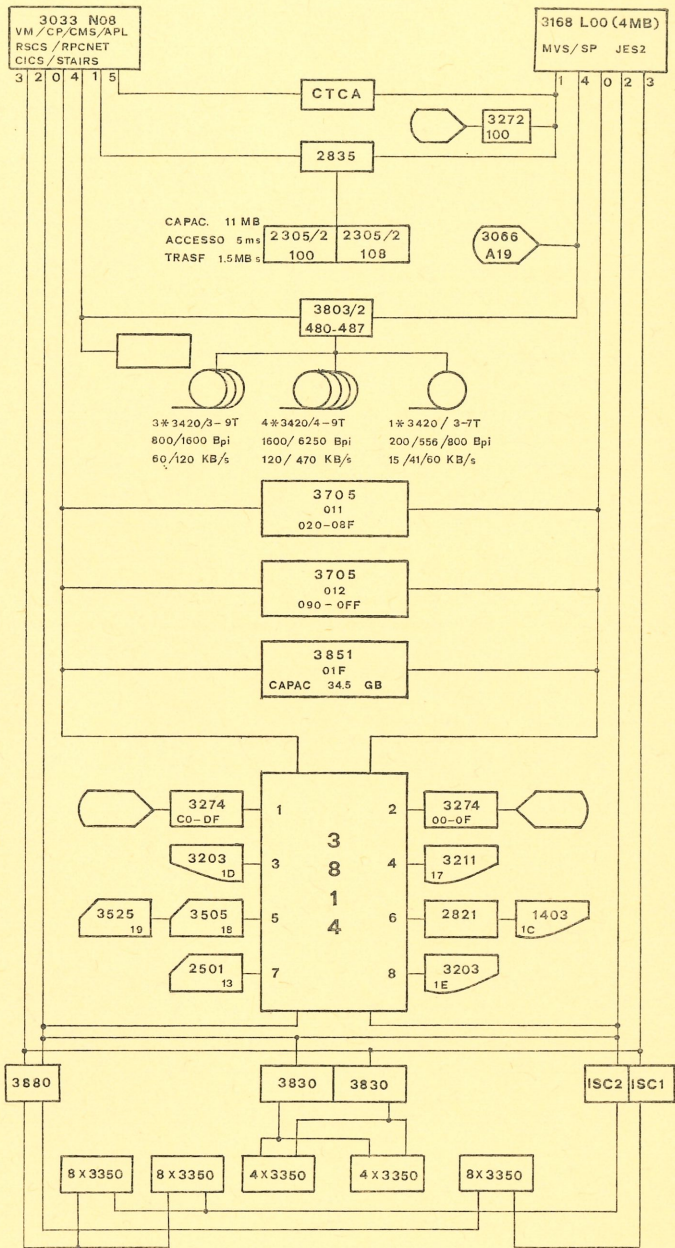
Remote users can access CNUCE by the following nodes that provide service:

Florence (I.D.G. - Tel. 055/432073); Frascati (I.A.S. - tel. 06/9421470); Milan (S.I.A.M. - tel. 02/2365541); Palermo (C.U.C. - tel. 091/427777); Pisa (CNUCE - tel. 050/45245); Turin (I.M. "Colonnetti" tel. 011/34878334). CNUCE is also the operating host of the EURONET-DIANE information network, and provides access to databases via the Common Command Language developed by CNUCE itself.



by R. Bandinelli / D. Canino  
MAY 1983

# Hardware



# Software

Group	Product - Description	CI.	CMS OS	
Algol - like	ALGOL W (ALGOriThm Language)	C	X X	
	ALGOL 68C (ALGOriThm Language)	C	X X	
	PASCAL	C	X X	
APL	APL/VS (A Program Language)	A	X X	
	IGL (Interactive Graphics Language)	A	X X	
Assembler	ASSEMBLER-H	A	X X	
	ASSEMBLER-VS/VM	A	X X	
Cobol	COBOL-OS/VS (COmmon Business)	A	X X	
	COBOL int. Deb. Oriented Language)	A	X X	
Fortran	CALC	A	X X	
	FORTTRAN-G1 (FORmula TRANslator)	A	X X X	
	FORTTRAN-H Extended	A	X X X	
	FORTTRAN Interactive Debug	A	X X	
	MORTTRAN-2 (Macro FORTTRAN)	B	X X	
	VS BASIC	B	X X	
PL/1	WATFIV (WATERloo Fortran IV)	D	X X	
	PL/1-F (Program Language 1)	C	X X X	
	PL/1-Optimizing	A	X X	
Simulation	CSMP-III (Continuous System Modelling Program)	B	X X	
	DYNAMO (DYNAmic Modelling)	B	X X	
	GPSS-V (General Purpose Simulation System)	B	X X	
	SIMULA-67	B	X X	
	SAAM-27 (Simulation Analysis and Modelling)	C	X X	
Statistical and Mathem. Programs	BMD (Biomedical Computer Programs)	B	X X	
	CERNLIB (CERN LIBrary)	D	X X	
	HBOOK	D	X X	
	EISPACK-2	A	X X X	
	FUNPACK-2	A	X X X	
	GLIM (Generalised LInear Model)	A	X X X	
	LINPACK	A	X X X	
	MPSX (Math. Programming System eXtended)	B	X X	
	NONLIN (Nonlinear Estimation of Parameters)	D	X X	
	SAS (Statistical Analysis System)	A	X X X	
Formula Manipulation	SESAME	A	X X X	
	SPSS-H (Statistical Package for the Social Sciences)	B	X X X	
	SSP (Scientific Subroutines Package)	C	X X X	
	REDUCE-2	C	X X X	
	SAC-1	C	X X X	
	Structural Analysis	MARC (non linear structural analysis)	A	X X
		STRUDL (STRUctural Design Language)	C	X X
		MEMTAT (graphic pre-post processor)	A	X X
		TABS77 (dynamic analysis of buildings)	C	X X
		SAP V2 (linear structural analysis)	C	X X
Cristallography	CRYM	C	X X	
	MULTAN	A	X X	
	SHELX	A	X X	
	SIR (Semi Invariants Representation)	C	X X	
	XRAY	C	X X	
Data Base Information Retrieval	KWIC (KeyWord In Context)	C	X X	
	STAIRS (STORage And Information Retrieval System)	A	X X X	
	SYSTEM 2000	A	X X X	
	QBE (Query By Example)	A	X X X	
	ISIS	A	X X X	
Word processing	TLS (Thesaurus and Linguistic System)	A	X X X	
	NSCRIPT (Waterloo script)	C	X X	
	DCF/GML (Script VS)	A	X X	
	Various	CIPS (Conversational Image Processing System)	C	X X
		MAGMA-LISP	A	X X X
PLOTTER		D	X X X	
SORT-MERGE		C	X X X	
SPICE-2D		C	X X X	

Maintenance class	A	Assistance from suppliers	YES	NO	Technical competence for CNUCE	YES	NO
	B		YES	NO		NO	YES
	C		NO	YES		YES	NO
	D		NO	NO		NO	NO

# Services

- 370 / 3033N
  - operating systems: VM-SP / CMS / APL / RSCS NETWORKING / CICS / STAIRS
  - conversational and batch services
  - direct connection by means of CNUCE Start/Stop terminals in the Users' room
  - indirect connection by means of Start/Stop terminals through the RPCNET service
  - remote connection by means of BSC terminals managed by the RSCS System
- 370 / 168
  - operating systems: MVS-SP JES2
  - batch service
  - local loading by the operator in the Reception room
  - local loading by the user in the Self-Service room
  - sending of jobs from a terminal linked to VM by means of the RSCS / NETWORKING
- RPCNET / Network
  - connection between several VM operated computers located in various parts of Italy
  - available applications:
    - \* file transfer (spool to spool)
    - \* interactive terminal access
- EURONET
  - access via TTY terminals (the NUA of CNUCE is 2223069DCNUCE) at speeds of 110, 300, 1200 bps
  - information is provided on line by typing ">>" or "H" or "HELP"
- Documentation
  - the Centre publishes a review "Rapporto" which comes out every three months. This contains an updated list of basic systems, and a series of technical information, news and communications from the various sections of the Computer Service;
  - a MANUT procedure is available in both OS and CMS for the automatic online retrieval of the most important information concerning the Systems, languages and computers
  - details for use may be obtained by typing "MANUT ?" on the keyboard in the CMS environment
  - details for use of many CMS commands may be obtained by typing "HELP" on the keyboard in the CMS environment
- Service Times:
  - Monday from 2 p. m. to midnight
  - Tuesday } 24 hours a day
  - Wednesday }
  - Thursday }
  - Friday }
  - Saturday from midnight to 2 a. m.