

## Offices for the Users

WHO (service)	KOW (tel.N°)	WHERE (floor)	WHEN (times)	WHY (requests)
Manuals and publications (T. Previti)	050/593261	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)	050/593257	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)	050/593217	second floor	10.00 - 12.00 15.00 - 17.00	- enrollment to courses in program - organization of visits
Advice Bureau (U. Mammini, P. Benedetti, P. Colli)	050/593213 593235	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 (E. Bolla)	050/593228	second floor	10.00 - 12.00 15.00 - 17.00	- indication about charging problems
Service T.P. (Operations)	050/41387 (answering service)	computer room	24 hours a day (Monday-Friday)	- notices and information on unprogrammed interruptions of the service, system restart, break-down of connections, etc.
EURONET Service (R. Bartoli, G. A. Romano, O. Signore)	050/593230 593248 593277	First floor	10.00 - 12.00 15.00 - 17.00	- latest news, services, contracts databases, tariffs

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

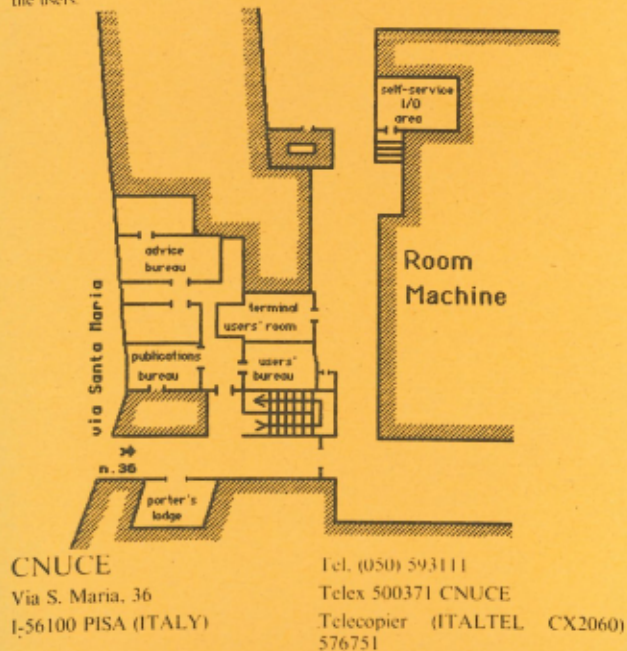
Request for:	Available
Virtual Machines Batch machine time OS disk space Magnetic supports Auxiliary material (paper, cards etc.)	the Monday following the request the Monday following the request the Monday following the request the Monday following the request immediately

## Computing Service

The CNUCE Computing Service is made up of 6 Technical Services:

- Operations (G. Severino) : concerned with the operative management of the Computer Systems, data trasmission and the management of service procedures
- Systems (R. Medves) : concerned with the study, setting up, installation, maintenance and development of basic software, operating systems, languages, programs and network support
- Advice and Assistance (U. Mammini) : concerned with supplying the user with advice and assistance
- Planning and Evaluation (R.B. Bandinelli) : 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
- Data Trasmission and Networks (M. Sommani) : concerned with maintaining, setting up and developing the data trasmission services
- Data Base (O. Signore) : concerned with maintaining, setting up and developing data bases and supplying users assistance in data base area

The Responsibles of the six Technical Services described above form the "Service Commission" whose job is to organically coordinate the Computer Service offered to the users.



CNUCE  
Via S. Maria, 36  
I-56100 PISA (ITALY)  
Tel. (050) 593111  
Telex 500371 CNUCE  
Telecopier (ITALTEL CX2060) 576751

Mr. .... gave me this brochure

tel. + 39 50 593 .....

## 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 University Departments and other organizations. The data Processing Service is based on a central computing system and several distribution networks. The central system consists of a 3081 IBM computer model K.

CNUCE is a node of the EARN/BITNET network, that permits the transmission of files, jobs, messages, and electronic mail. EARN/BITNET connects research and educational institutes in Europe, in the Middle East and in North America.

A subset of the Italian nodes in the EARN/BITNET network is also connected by the VM/PASSTHRU network, that allows remote logon to 327x type terminals.

Six nodes in the VM/PASSTHRU have agreed to provide access to the systems of CNUCE via ITAPAC. Via ITAPAC it is also possible to have access to some CNUCE databases that were formerly on the EURONET/DIANE network.

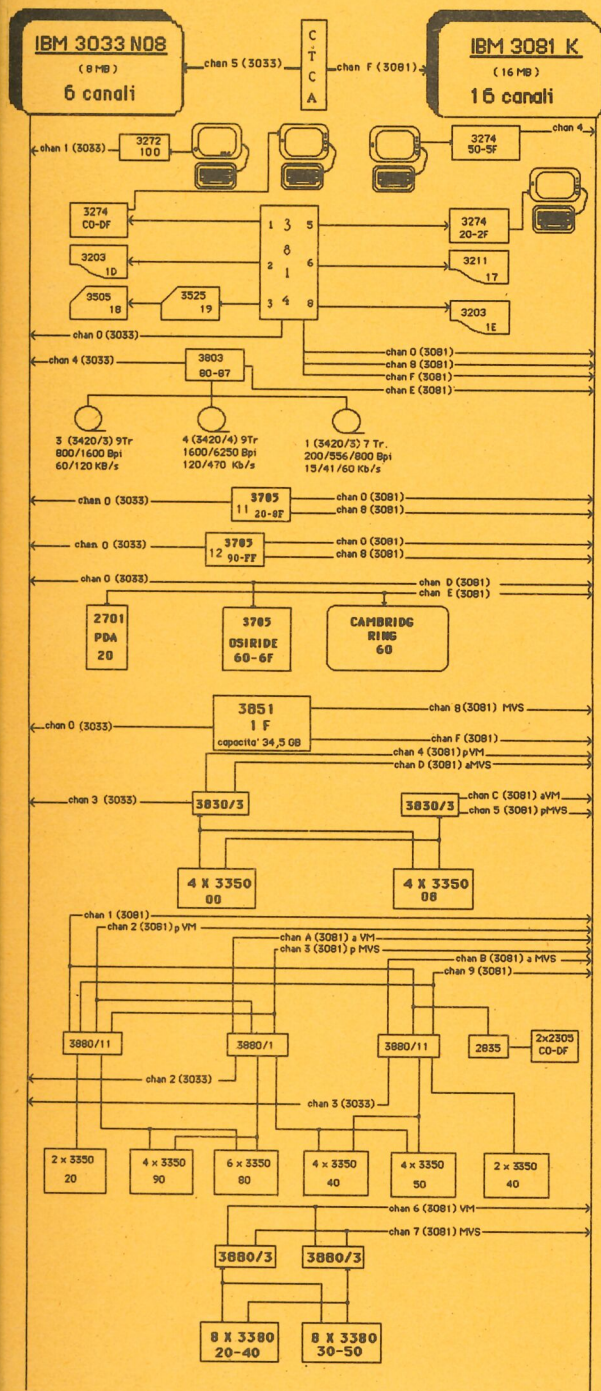
CNUCE is also an operating host of ARPANET and at the end of 1986 there will be a DECNET connecting the C.N.R. Digital computers, and all users on this network will be able to have access to the systems at CNUCE.

The six hosts cited above are:

Firenze (I.D.G. tel. 055/410977); Frascati (I.A.S. tel. 06/9421483); Milano (S.I.A.M. tel. 02/2367587); Palermo (C.U.C. tel. 02/2367587); Pisa (CNUCE tel. 050/593111); Torino (I.M.G.C. tel. 011/3487834).



# Hardware



# Software

Group	Product - Description	CI	CMS OS	
Algol - like	ALGOL W (ALGOritm Language)	C	X X	
	ALGOL 68C (ALGOritm Language)	C	X X X	
	PASCAL - VS	A	X X X	
	PL360	D	X X X	
APL	VSAPL (A Program Language)	A	X X	
	APL2	A	X X	
Assembler	ASSEMBLER-H	A	X X X	
	ASSEMBLER-VS/VM	A	X X X	
Cobol	COBOL-OS/VS (Common Business Oriented Language)	A	X X X	
		A	X X X	
Fortran	CALC	A	X	
	FORTTRAN-VS (IBM)	A	X X X	
	FORTTRAN-77 (SIEMENS)	A	X X X	
	FORTTRAN-G1 (FORMula TRANslator)	A	X X X	
	FORTTRAN-H Extended	A	X X X	
	MORTTRAN-2 (Macro FORTTRAN)	B	X X X	
	VSBA SIC	B	X X X	
	IBM-BASIC	B	X X X	
	WATFIV (WATERloo Fortran IV)	D	X X X	
	IGL (Interactive Graphics Language)	B	X X X	
PL/1	PL/1-F (Program Language 1)	C	X X X	
	PL/1-Optimizing	A	X X X	
Simulation	CS MP-III (Continuous System Modelling Program)	B	X X	
	DYNAMO (DYNAMIC Modeling)	B	X	
	GPSS-V (General Purpose Simulation System)	B	X X	
	SIMULA-67	A	X X X	
	SAAM-27 (Simulation Analysis And Modeling)	C	X	
	Statistical and Mathem. Programs	BMD (BioMeDical computer programs)	B	X X X
		CERNLIB (CERN LIBrary)	D	X X X
		HBOOK	D	X
		EISPACK-2	A	X X X
		FUNPACK-2	A	X X X
GLIM (Generalised Linear Interactive Model)		A	X X X	
LINPACK		A	X X X	
MPSX (Math. Programming System eXtended)		B	X	
NONLIN (NONLINEar estimation of parameters)		D	X	
SAS (Statistical Analysis System)		A	X X X	
SESAME	A	X X X		
SPSS-H (Statistical Package for the Social Sciences)	B	X X X		
Formula Manipulat Structural Analysis	SSP (Scientific Subroutines Package)	C	X X X	
	REDUCE-2	C	X X X	
	SAC-1	C	X X X	
	MARC (non linear structural analysis)	A	X X X	
	STRUDL (STRUCtural Design Language)	C	X X X	
	MENTAT (grafic pre-post processor)	A	X X X	
	TABS77 (dynamic analysis of buildings)	C	X X X	
	SAPV2 (linear structural analysis)	C	X X X	
	CRYM	C	X X X	
	MULTAN	A	X X X	
Cristallography	SHELX	A	X X X	
	SIR	C	X X X	
	XRAY	C	X X X	
	KWIC (KeyWord In Context)	C	X X X	
	STAIRS (STorage And Information Retrieval System)	A	X X X	
	SYSTEM 2000	A	X X X	
Data Base Information Retrieval-	QBE (Query By Example)	A	X X X	
	ISIS	A	X X X	
	SQL/DS (Structured Query Language)	A	X X X	
	NSCRIPT (Waterloo script)	C	X X X	
	DCF/GML (Script VS)	A	X X X	
	CIPS (Conversational Image Processing System)	A	X X X	
Word processing Various	MAGMA-LISP	D	X X X	
	PLOTTER	C	X X X	
	SORT/MERGE	A	X X X	
	SPICE-2D	C	X X X	
	MPROLOG	A	X X X	
		A	X X X	

# Services

- Conversational
  - operating system VM/SP: CMS, APL/CMS, STAIRS/CMS
  - operating system MVS/SP: TSO/E, CICS, STAIRS/CICS
  - direct connection by means of CNUCE terminals in the users's room or by using terminals connected via telephone line
  - indirect connection by using the service net PASSTHRU
- Batch
  - operating systems: MVS-SP JES 2
  - sending jobs by using RSCS
  - sending jobs from remote batch terminals managed by RSCS
- EARN/BITNET
  - applications: file transfer, messages and electronic mail, remote job entry and gateways other networks
- PASSTHRU
  - permits user LOGON on a different computer from that to which the terminal is connected
- Documentation
  - the Centre publishes a review "Rapporto" which is published every three months. This contains an updated list of basic documentation on CNUCE, its computers and systems, and a series of technical information, news and communications from the various sections of its Computer Service
  - a MANUT procedure is available in 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
  - from Monday 6.00 a.m. until Saturday 6.00 a.m.: service controlled by operator
  - from Saturday 6.00 a.m. until Monday 6.00 a.m.: service not controlled by operator
  - each first Monday of the month, from 6.00 until 14.00 p.m. the service is stopped for maintenance

Maintenance Class	Assistance from suppliers	Technical competence at CNUCE
A	YES	YES
B	YES	NO
C	NO	YES
D	NO	NO