## COMPUTER STATISTICS

## IBM SYSTEMS 17/5/82 - 14/6/82

Weekly availability is uptime/168

# SYSTEM AVAILABILITY - % of 672 hrs available

MVT - 91.7%, CMS -93.8%, ELECTRIC - 86.9%.

Average	Average
CPU hrs/week	jobs/week
190	11580

## TERMINAL SYSTEM USERS

Active users	Registered users	
371	768	CMS
497	1236	PLECIATO

### SERVICE LEVELS

Percentage of prime shift short round inside guideline: jobs not turned

Response to trivial command during peak period:

CMS	Week 1	Week 2	Week	Week 4	
% <1 sec	96.0	95.5	95.4	95.4	
% <3 secs	99.8	99.8	99.8	99.9	
ELECTRIC					
% <2 secs % <5 secs	81.1 91.6	84.7 93.7	88.5 95.8	60.8 76.6	
USAGE					

Cumulative totals are for current financial year  $10\ \mbox{weeks}$  to date.

TOTAL	ASR Engineering Nuclear Physics Science Central Funding NERC External	Board
1745	195hrs 86 175 1175 196 51 51 34 28	TVM
1189	AUS 91 68 677 178 120 120 28	ELECTRIC
2029	AUS 75 80 468 112 1192 * 43 59	CMS

<sup>\*</sup> These entries include some usage due to "service" functions which are strictly an overhead and should be accounted separately.

### ICF SYSTEMS

# AU USAGE BY BOARD - periods 8204-8206

Board	Prime	GEC	DEC-10	TOTAL
ASR	67	50	10	128
Engineering	2932	974	1858	5765
Nuclear Physics	61	78	0	139
Science	173	196	317	688
Central Funding	1817	404	388	2610
System Overheads	3318	76	550	3944
External	98	75	75	249
TOTAL	8466	1853	3198	13523

### DIARY

## IBM PREVENTATIVE MAINTENANCE DATES

Routine Preventative Maintenance will take place on the following days from 1800 - 2200 hours. Login messages on the ELECTRIC and CMS services will be issued prior to each maintenance session as a reminder.

22 Jul 19 Aug 16 Sept 21 Oct 18 Nov 16 Dec

# AIR-CONDITIONING SHUTDOWN - CHANGE OF DATE

The next shutdown of all computer network equipment) scheduled fo maintenance of air-conditioning plant is: for systems or 1982 for (except

0800 hrs on Friday 22 Oct till late Monday 25 Oct

List of articles in FORUM 20, 21 and 22

- 1 Apologies
  2 Central Computer Replacement
  3 Use of AUs in CMS
  4 Workstations and Telecommunications
  5 Maximum MVT region size
  6 Maximum MVS system

- VM Spool
- 20.2 Centra
  20.3 Use of
  20.4 Workst
  20.5 Maximu
  20.6 Trial
  20.7 VM Spo
  20.8 Extrac
  20.9 Teleph
  20.10 Index
  20.11 Comput
  20.12 Diary Extract from minutes of CCSUM -
- Telephone Numbers

  - Computer Statistics
- Supplement to FORUM 20 -
- 21.1 21.2 21.3 21.3 21.5 21.5 21.6 21.7 22.7 22.7 22.3 22.5 Supported packages on the Central System MVT to MVS - the user's view Extract from minutes of CCSUM - 3/2/82
  - Graphical Kernel System (GKS)
  - File Transfer Facility on SERCNET

  - Computer Statistics

  - IBM User Representative Meeting 17/3/82
- ARPANET access Computer Statistics
- Diary
- Correction to FORUM 21

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## COMPUTER NEWSLETTER -ORCIV

## Newsletter of the SERC Central Computing Facility

No. 25 July 1982

# QUESTIONNAIRE RESULTS - LIST OF WORST CASES

Having printed the requestionnaire, we have careas which came out we indication of what we are uneas which came out worst and to give indication of what we are doing about it. I own personal gripe is not included here probably due to the fact that probably due to the fact that your prob special and should be treated specially by contact PAO and let us help). not included Hero -fact that your problems are results t of highlight If your some

## Computing Division Seminars

This question received the worst rating, which is not surprising since the seminar series at RAL had lapsed. It is intended mainly for geographically local users but while we do not publish to all, there is no reason why any user should not come if visiting RAL on the appropriate day. We have revived the series now on a monthly basis and information is sent to RAL site and neighbouring laboratories. We hope we have made the series interesting and informative.

# Hardcopy Terminals at Workstations

hardcopy devices. Traditionally, user for provide their own terminal equipment (except for ICF and main lineprinters). We are willing to look into the provision of more equipment if we know into the provision of the equipment if we know what, if device. However, it was not clear from the replies whether users wanted more fast teletype devices for use as alternatives to lineprinters, whether they wished to record their terminal sessions on This question anything, is required. what is wanted so write directly to whether it related to related to availability ssions on Tektronix

### Home Terminals

special Again this related to availability. limited number of portable termin charges etc. know if you are interested. this related to availability. RAL do have a ed number of portable terminals for use in al cases but we cannot reimburse telephone es etc. If there was sufficient demand we consider increasing this number, so let us

## Network Reliability

National Network with proper controls and statistics. We are all working towards a more reliable service. Since a user sees a combination of the reliability of a variety of items This problem occupies a lot of our probably know, steps are in han of our time. As in hand to set up a

> the perceived reliability tends to be poor. software),

### ELECTRIC response

We are aware of the problems there have been in this area. However, with the advent of CMS and the prospect of closing ELECTRIC sometime in the forseeable future, we do not intend to do any work to improve the situation. The solution is to move to CMS as soon as possible.

various parts being rectify both faults. The main criticisms here are lack of an being out of We intend to

### NETSTAT

possible. still not quickly enough. RAL intend to reinstall the ansaphone system which will be kept up to date with status information. that allocated to Daresbury). Consequent not able to put as much information Until recently the space allocated to RAL in the NETSTAT region was very limited (much less than ble. The situation has improved now but it is not always possible to update the information ly enough. RAL intend to reinstall the Consequently we were there

### Flow of Information

With such a large user population, most of which is geographically remote, there is a constant problem of information dissemination. The methods we use at the moment are:

## FORUM - Monthly to all users

workstations. News Bulletins Contain Mostly immediate printed transitory

Meeting of Group Representati passing on the information to Central Computers Representatives Meetings Group Representatives who should be the users

Central Site User Meeting - A monthly meeting of representatives of users based at RAL. They also should pass back useful information to co-operating groups.

User Liaison Committee - Meeting to advise the Computing Coordinator of User Views. Chairmen the previous two meetings attend.

Any practical suggestions on ways of improving

flow of information are always welcome. personally be very interested to hear from anyone. I will

## Resource Management Assistance

that a part of the that RAL are Some people have had problems with allocations and related subjects. There is evidence to suggest are bound by the agreed nothing that RAL can do to help. are made by the Boards. allocations on request. able to alter (especially increase) problem d yearly allocation.

If you run out of time your Board first as there i This is not the case. s evidence to suggest is the misconception which

service all queries, espe people who are absent, the creation of a central whereby all calls to for ensuring centrally and However, we queries, especially providing cover for are absent. An idea we are pursuing is n of a central Problem Management system calls to the Division are handled nd this central that the problems group are responsible are solved

We are taking steps to improve things. We are aware of bugs i in n this area and facilities on CMS of the

# Lineprinter Turnround at Remote Sites

over-riding settings and getting his 10000 line listing out in the middle of the day. It would be possible for us to remove the ability to reschedule at a workstation, but feel that, in general, users would prefer to retain the ability, in spite of the problems. Please let us know if our understanding difficulties is possibility of This seems like a problem that can be solved by the local users. We believe മ the scheduling of output, with the local user at the console

195/1

3081

Stage 1

Current problems with the rerouting of VNET are being solved. output

R E Thomas - User Interface Group

## CENTRAL COMPUTER REPLACEMENT

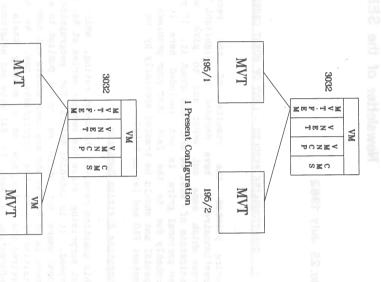
At the May meeting of Council, approval was given for the purchase of an IBM 3081D to replace our 360/195s. This machine is a 16Mbyte dual processor with slightly less cpu power than two 195s. The slight decrease in cpu power will be partially offset by the extra memory and channels.

machine is purchased, investigations, of an ICL ATLAS is the Fujitsu M380 , an IBM purchase, marketed in 2.5-3 subject the gave financial approval times UK by delivery the power of a 195. delivery would be ICL. ATLAS 10 computer. This an IBM-compatible machine detailed has a technical TOP If this in mid

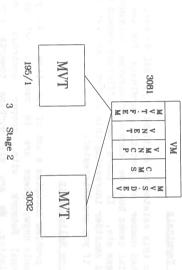
several steps over about three months. due to be delivered on 6th July. Aft tests , it will be connected to the steps weekend 17/18th July and 195 The replacement of the 195s will take ne system 195/1 wi After acceptance le system during 195/1 will be te place in The 3081 is

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testing will be carried out ..... 4fter will be restricted to the 3032 and 195/2. After will be restricted to the 3032 and 195/2. After will be restricted to the 3032 and 195/2. After will be restricted to the 3032 and 195/2. run for about one month (Stage 1). necessary recabling. For the next week, software testing will be carried out and the user service disconnected at the same the system to be down for about 24 hours for the



The next stage (Stage 2) will be to swap the roles of the 3032 and 3081. The 3081 will run the current 3032 VM system but its greater power will enable it to run a bigger MVT batch system and an MVS development machine as well as improve CMS response. The 3032 and 195/2 will run native mode MVT. At this stage the throughput of the system will be greater than at present so any backlog that builds up during installation should be cleared.



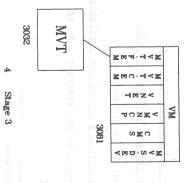
The final stage (Stage 3) will be to discon 195/2. To achieve maximum throughput on the it will be necessary to run two MVT machines u VM to use the 3081's two processors efficiently. In this stage the system should about 13.7 Mbyte for batch jobs. disconnect on the 3081

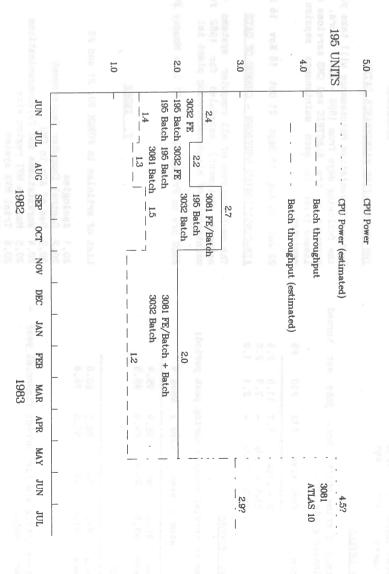
have

The graph below shows how the CPI batch throughput should vary over CPU the power next year. the

October when both 195s will be removed. September conditioning maintenance be until scheduled the end for of

John Gordon - User Interface Group





5 Anticipated change in 'usable' cpu power and batch throughput

### MVT BATCH USAGE

accounts in the 'MVTGRANT acct' usage figures are run. Allocations in the JB=GRANTS may publicly available Details of MVT similar information. relevant batch has HELP updated weekly after the accounts usual way. examined for reflect ch allocations and usage are on-line. In ELECTRIC the file Further details are available been file. the supplied For both cases the In particular MVT CMS the command to provide MVT

Keith Dancy - Resource Management

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## DECNET - REDUCTION OF SERVICES

The DECnet concentrator at RAL(DN82) was removed on 1 July. All known dialup and directly connected users were informed of the new arrangements for them to obtain access to the Edinburgh DEC-10.

service for a further short period until users who rely on it for access to the DEC-10 are able to use the recommended method via the SERCnet and the The similar concentrator at UMIST will also be informed of the closure date. the recommended method GRETNA Gateway(EDXA). Users he SERCnet and of this service remain

Jed Brown - User Interface Group