COMPUTER STATISTICS

IBM SYSTEMS 25/1/82 - 20/2/82

Weekly availability is uptime/168.

MVT - 95.4%, CMS - 97.4%, ELECTRIC - 91.3%. SYSTEM AVAILABILITY -% of 672 hrs available

MVT THROUGHPUT

Average jobs/week Average CPU hrs/week 14253 208

TERMINAL SYSTEM USERS

Registered users Active users 686 322 ELECTRIC

SERVICE LEVELS

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

			Batch
352k - 560k	212k - 350k	0 - 210k	Core size
1	ı	4.2	P12
2.7	15.3	10.6	P 10
3.2	7.4	4.0	P8

TERMINAL SYSTEMS

Response to trivial command during peak period:

CMS	Week 1	Week 2	Week 3	Week 4
% <1 sec	94.3	92.2	94.6	97.4
% <3 secs	99.5	99.3	99.6	99.8
ELECTRIC				

<2 secs 64.3

59.1 77.9

68.5

72.2 86.5

MVT and ELECTRIC totals are for 47 weeks, CMS totals are for 20 weeks from 5/10/81.

USAGE FOR CURRENT FINANCIAL YEAR

Board	195hrs	ELECTRIC AUS	AUS
ASR	516	655	141
Engineering	830	379	134
Nuclear Physics	6833	5598	974
Science	1291	1828	274
Central Funding	243	904	4372 *
NERC	171	386	176
External	147	597	94
TOTAL	10031	10347	6165

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

ICF SYSTEMS

AU USAGE BY BOARD - periods 8104-8202

Board	Prime	GEC	DEC-10	TOTAL
ASR	205	491	26	723
Engineering	13893	4888	6510	25292
Nuclear Physics	51	75	0	126
Science	402	743	2136	3282
Central Funding	5098	1532	1590	8222
System Overheads	4924	511	3428	8863
External	394	304	226	924
TOTAL	24967	8544	13916	47432

DIARY

USER MEETINGS

17 March 1982 - IBM Group Representatives in RAL Lecture Theatre

MVS, some aspects of operations, progress reports on charging and control, VNET and networking as well as a general session. The programme for this meeting includes items on mainframe procurement, initial thoughts on

31 March 1982 - Prime User Group at UMIST

RAL can only provide expenses for two ICF users from each site but anyone interested should contact Miss M Bolger, Atlas Centre, RAL. Tel Abingdon 21900, ext 6293

The following dates have been decided of DECsystem-10 Users Committee meetings during on n for 1982:

Wednesday 10 March Wednesday 2 June Wednesday 1 September Wednesday 10 November

The time and place for these four meetings is 10.30 am at the James Clerk Maxwell Building, King's Buildings, Edinburgh.

AIR-CONDITIONING SHUTDOWN

The two shutdowns of all computer systems network equipment) scheduled during 1982 network equipment) scheduled during 198 maintenance of air-conditioning plant are: 1982 for the

0800 hrs Friday 16 April till late Monday 19 April

0800 hrs Friday 10 Sept till late Monday 13 Sept

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COMPUTER NEWSLETTER

Newsletter of the SERC Central Computing Facility

No. 21 March 1982

MVT TO MVS - THE USER"S VIEW

responsible for the programme of conversion to MVS is that most users will require to make very few changes to existing programs, JCL and organisation of their work to get the most out of the new encouraging view expressed by those

for MVT. The new systems have an expanded range of facilities. The system messages (JCL, logging, error etc) will look different but will convey the same information. replacement In broad terms ent for users may think of JES3 as a HASP and of MVS as a replacement

The other areas where differences may affect users

- routing and control of output the dataset cataloging facilities
- specialised language support

JES3 commands and analysed. They must be val commands or the job will be cancelled. However records beginning '//*' with a blank in column will still be treated as valid JCL comments. and any non blank character in column 4 are treated as comments and are ignored by the JCL interpreter. Under MVS/JES3 all such records are considered as Under the MVT, control records beginning with '//*'

A much finer control on routing of output is possible with JES3. For example the //* FORMAT control record can be used to produce multiple copies of output datasets or to route different output datasets to different destinations.

The MVS dataset cataloging system offers us the facility for much more efficient management of datasets. A master catalog may contain entries for OS datasets, user catalogs and private OS catalogs. The master catalogs and user catalogs are VSAM datasets. They are portable between systems, allow catalogs to be on mountable volumes, minimise the effect of errors to damaged entries in catalogs and provide performance improvements by reducing contention for a catalog.

however, supported versions of these conversion of programmes to use them few problems. Two languages still in use at RAL will no longer supported - COBOL F and PL/1 F. There are versions of these languages

Jed Brown - User Interface Group

EXTRACT FROM MINUTES OF CCSUM - 3/2/82

The following items of interest have been taken from the Central Computing Site Users Meeting held on Wednesday 3. February 1982.

- (a) The JOB status facility was 3 February. A series of 1 available. help files are implemented
- 9 ELECTRIC now processes the cards correctly. new style ROUTE
- (c) IBM 3270 type terminals have been rented for R1 and some tuition sessions held. Requests for further sessions should be addressed to D F Parker of User Interface Group. These terminals will be replaced by CIFER terminals with 3270 emulation to SERC specification later this year.
- (d) ELECTRIC and CMS charging algorithm. M R Jane reported that it is proposed to modify the charge rates as shown below.

weekends and	12.00 - 14.00	10.00 - 12.00	08.00 - 10.00	00.00 - 08.00	TIME
weekends and public holidays remain at 0.1.	0.6	1.0 22.00	0.4	0.1	C(t) TIME C(t)

Please note that the only change in charge rate is from 0.8 to 1.0 for the morning peak session and that it applies for a shorter time, 1000 hours to 1200 hours instead of 0900 members. hours to 1200 hours. The lunchtime session has been increased by 1 hour and the afternoon session ends at 1700 hours instead of 1800 hours. These changes will be implemented from the beginning of the financial year 1982/83.

Projected capacities in AUs are:

982/83 25000 (CMS) 7500 (ELECTRIC) 983/84 35000 (CMS) 3750 (ELECTRIC) 984/85 45000 (CMS) 1000 (ELECTRIC) 985/86 50000 (CMS) 1000 (ELECTRIC)	1985/86	1984/85	1983/84	1982/83	
7500 3750 1000 1000	50000	45000	35000	25000	
7500 3750 1000 1000	(CMS)	(CMS)	(CMS)	(CMS)	
(ELECTRIC) (ELECTRIC) (ELECTRIC) (ELECTRIC)	1000	1000	3750	7500	
	(ELECTRIC)	(ELECTRIC)	(ELECTRIC)	(ELECTRIC)	

The later figures do not imply that ELECTRIC will be available then.

(e) M R Jane reported that it has been agreed to allow exchange of ELECTRIC AUs for CMS AUs at the rate of 2 for 1, but not vice versa.

GRAPHICAL KERNEL SYSTEM (GKS)

Editorial Review in November 1981, GKS 7.0 (the version registered as the Draft Proposal) was produced. This is now available as part of a Rutherford Appleton Laboratory report: was adopted by the International Organisation (ISO) as a Draft Proposal Following the completion of the Technical Review of GKS at a meeting in Abingdon in October 1981, GKS was adopted by the International Standards graphics standard. After for an

GKS - The First Graphics Standard by F R A Hopgood

Anyone interested may obtain a copy of the 260-page (RL-82-007) from:

Rutherford Chilton 0xon 0X11 0QX Appleton Laboratory

Tel Abingdon 21900 ext 384

Dale Sutcliffe - Applications Group

FILE TRANSFER FACILITY ON SERCNET

1. One of the prim the transfer of f This is performed transparent to the user. One of the primary functions of the network is files files from machine by a system that to machine.
is largely

To cause files to be transferred from (or to) your machine, you need to know how the command on your machine works. This can be found from the user machines can both respond and Dec-10 users and CMS users the command is FTP. CMS FTP can not yet respond to requests from other machines. It must issue the requests. All other requirements are as follows:manual supplied to you. The examples below. details required to set up the GEC users the command is TRANSFER, The FTP h respond to requests and issue command will usually prompt for to set up the transfer request. The main points are w. In all cases for PRIME shown the

- distinguish between machines of the at the same site. Examples are: RLPB (Rutherford Lab Prime B), CAGA (CAmbridge \underline{Gec} \underline{A}). signifying the site, the machine type and the mnemonics of most SERCNET machines can be found in the 'Hitch Hikers Guide to SERCNET'. Most consist of 4 characters, the first two signifying the site, the third indicating Remote machine 'name' - the mnemonic of other machine involved in the transfer. last ird indicating being used to same of the fer. The type
- b. Remote user identifier/password combination the other user involved in the transfer.

Example of PRIME FTP

All entries by the user are shown underlined.

a) PRIME to GEC-SENDing a file (LOGIN.CPL) to file (.FTPTEST) in DEMO's filestore. മ GEC

OK, $\frac{ftp}{V7.6}$: Default Parameters (without passwords): Remote site = RLGB Local treepath = NTIN18>

 \sim

- > site caga
 > remote demo demo
 > send login.cpl . cpl .ftptest
- b) To list FTP requests already in the queue.

Listing (without passwords) of queue for remote site CAGA

NTIN18 09.02 04/03/82 S Send LF=NTIN18>LOGIN.CPL Size 1 Kbytes LOGIN. CPL

RU=demo RF=.ftptest

c) To determine current parameter obtain list of all remote sites known settings and

Remote site = CAGA Type Local treepath = NTIN18> = GEC Status Information (without passwords):

Remote user = demo

Possible Remote sites are: (There is not enough room for the list here)

> quit OK,

Example of GEC FTP

a) GEC from PRIME-FETCHing a file (.initjcl) from NTIN18 filestore (startup)

TRANSFER process for MAFS, version remote computer? 10

local filename? (null implies a device)

remote filename? remote username? (null implies a device)

remote password?

(this is not echoed)

local username?

remote account?

local password?

(this is not echoed)

account?

options? (default is SEND, APPEND or MAKE) fetch

Examples of DEC 10 FTP

Full documentation is available in the DEC10 Installation Manual, Document 3A55B. Edinburgh

a) To transfer a file (EXMPLE.TXT) from the user's own directory [12,45] (his UFD) to user NTBE34 on a PRIME(RLPB) on the SERCnet, and give it a different The password(MYPASS) is not echoed: name(EXAMPLE)

FTP RLPB EXAMPLE=EXMPLE.TXT
PRIME login name for RLPB EXAMPLE : NTBE34
PRIME login password for RLPB EXAMPLE : MYPASS

EXIT

b) To list FTP requests already in the queue, starred entries showing those in progress: with

FTP/LIST

EXIT Seq# User Destination Source 4577 [12,45] RLPB_EXAMPLE=ERCC_EXMPLE.TXT[12,45]

c) To list the nodes to/from which files may be transferred, referring to them by site mnemonic. At the time of writing there were over 65 such mnemonics. The full names of the sites, machines, mnemonics, and network addresses are given in the

FTP/NODE
(There is not enough room for the list here)

d) To cancel a transfer request

FTP/KILL:4577

EXIT

e) To examine the log of transfers made to/by the

TYPE FTP.LOG

f) To obtain FTP command: a reminder of the basic form of the

HELP FTP

FTP/HELP

5. Example of CMS FTP

a) To transfer a file (EXMPLE.TXT) from RLPB to as EXAMPLE TEMP

ftp DASD 120 LINKED R/O; R/W BY NIFTP DMSACC723I B (120) R/O

remote computer

rlpb local file (default : NIFTP DATAFILE) give no CMS filemode for incoming files)

example temp
remote file (default is device)

exmple.txt
remote username

emote password

remote account options (default : SEND APPEND, MAKE CII, EBCDIC) NOPFCC LOGO

Caution: fetching to existing file PUN FILE 5460 TO NIFTP COPY 001 NOHOLD

> DASD Initiation completed 120 DETACHED OK.

file b) The following shows transfer completed messages during ь the the same se session and commands to move the

query rdr PUN FILE 5463 FROM NIFTP PUN FILE 5464 FROM NIFTP 15:29:45 MSG FROM NIFTP : FTP FINISHED OK COPY 001 NOHOLD NOHOLD

NIFTP 5 NIFTP NIFTP EXAMPLE USERLOG 5480 A PUN 00000006 001 NONE 02/24 5464 A PUN 00000044 001 NONE 02/24 E TEMP PH-58 5481 A PUN 00000044 001 NONE 02/24 - all 5463 A PUN 00000006 001 NONE 02/24 15:29:4 MAIL PH-58 PH-58 15:31:0 15:31:0 15:29:4

FOLLOWING MAIL ADDED TO: MAIL LOG A O

ΕX

Initiated Transfer of EXMPLE.TXT of at 15.29.30 on NSIN 15 24 FEB 82 on RLPB to EXAMPLE

Transfer completed OK at 15.29.44 58 records transferred. on 24 FEB 82.

R(00013);%

DISK LOAD EXAMPLE TEMP (5464) ORIGIN: NIFTP R(00003);%

disk loa load TEMP T 1

Jed Brown and I Georgii -User Interface Group

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