

NP3

^S

NP8

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AI ITS 795 CONSOLE 22 FREE. 11:22:57

AI ITS.795. DDT.508.

8. USERS

WE HAVE AN INTERMITTANT ON THE IO BUS,

SO BE VERY CAREFUL WITH YOUR MAGTAPES AND MICRO TAPES.

IF THE 340 IS DISPLAYING OK FROM THE IO, ALL IS OK. OTHERWISE
FIND A HACKER FAST AND BRING DOWN THE SYSTEM IN FIVE MINUTES.

--RG

multsu

tn^K!

TELNET.37

HOST = MULTICS

*

8878 - UNICOM BUSINESS FORMS - DEPT. 8878 - 10/80

Load = 27.0 out of 50.0 units; users = 28

l Saltzer@l Saltzer

Password:

XXXXXXXXXXXXXXXXXXXX

You are protected from preemption until 1155.

Saltzer Multics logged in: 04/10/73 1125.7 est Tue from Network terminal "mita

Last login 04/02/73 1330.1 est Mon from 1050 terminal "."

Lines 8-8149 to 8-8170 and 8-7119,8-7120 have been removed from the 645 Multics machine as of Sat. 4/7/73

Please type help sked for 645 Data Line availability.

new/updated help files: 6180_costs, mpm, lines.

LISP users: type "help lisp_changes"

There will be a User's Forum on Wed, 4/18, at 1500 in 39-530 to discuss the transfer to the new Multics machine (Honeywell 6180) r 1126 7.571 0+95

whom -long

Multics 18-11 up since 04/09/73 0632.6

load 27.0/50.0; abs 1/2; 28 users

| | | | | | |
|--------|----|------|-----|-----------|----------------|
| 1037.8 | 10 | 526 | 1.0 | AIDES | PLJensen |
| 1049.4 | | none | 1.0 | AutoProg | Reed |
| 0636.6 | 09 | 403 | 1.0 | CNet | Network_Daemon |
| 1120.8 | 10 | 567 | 1.0 | CPAdmin | Treimanis |
| 1120.2 | | 255 | 1.0 | CPCen | Gilson |
| 1030.9 | | 375 | 1.0 | CPCen | Godsell |
| 1029.5 | | 565 | 1.0 | CPStat | MSiegel |
| 1106.5 | | none | 1.0 | CompNet | Kanodia |
| 0937.1 | | none | 1.0 | CompNet | Pogran |
| 0936.1 | | . | 1.0 | CompSys | DClark |
| 0905.2 | | none | 1.0 | Druid | Dupuis |
| 1038.2 | | none | 1.0 | Druid | Hartman |
| 0845.3 | | PE2 | 1.0 | Druid | Punches |
| 1056.8 | | 403 | 1.0 | Druid | Rice |
| 0844.3 | | none | 1.0 | Druid | Wylie |
| 0935.3 | | 334 | 1.0 | EEAdmin | Caloggero |
| 0851.3 | | a97 | 1.0 | EEGradOff | Dodge |
| 1030.6 | | 568 | 1.0 | Janus | Hill |
| 1114.1 | | none | 1.0 | Local_4 | Ressijac |
| 1114.0 | | none | .5 | MPM | Carey |
| 1112.0 | | none | .5 | MPM | Grant |
| 1125.7 | | mita | 1.0 | Multics | Saltzer |
| 1117.9 | | none | 1.0 | PMED | GMiller |
| 0938.0 | | 532 | 1.0 | SysAdmin | Phillipps |
| 0929.6 | | 502 | 1.0 | SysAdmin | RHert |
| 0633.5 | 09 | 412 | 1.0 | SysDaemon | Backup |
| 0634.4 | | 402 | 1.0 | SysDaemon | IO |
| 0633.0 | | none | 1.0 | SysMaint* | Roach |

r 1126 8.070 4+57

ls -a

Segments= 43, Records= 73.

| | | |
|-------|---|------------------|
| re wa | l | mipt |
| re | l | x |
| r wa | l | x.alm |
| re | l | tcall |
| r wa | l | tcall.pll |
| re | l | no_call_test |
| r wa | l | no_call_test.pll |
| re | l | call_test |
| r wa | l | call_test.pll |
| re | l | mipt_eapi30 |
| re | l | mipt_eap30 |
| r wa | l | mipt_eapi30.alm |
| r wa | l | mipt_eap30.alm |
| re | l | mipt_ada30 |

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```
r wa 1 mipsyma.ec
re 1 loop
re 1 intm
r wa 1 intm.pll
r wa 1 mipt.alm
r wa 1 loop.pll
re 1 mipm
r wa 1 mipm.pll
rewa 1 mpw
rewa 1 mpw.pll
rewa 1 dfq
rewa 1 digraph_freq_
rewa 1 sums
rewa 1 sums.pll
rewa 1 digraph_freq_.pll
dfq.pll
r wa 1 sarah.basic
r wa 1 mailbox
re 2 whom
re 1 tgm
r wa 10 misc.archive
r wa 4 memo.archive
re 2 gomoku_move
gomoku_init
r wa 1 gomoku.info
re 2 gomoku
r wa 5 eds.pll
re 2 eds
r wa 7 edit2.pll
rewa 4 edit
eq
r wa 2 cnts.mpm
```

Directories= 0.

Multi-segment files= 0.

Links= 3.

macsyma

lisp

trace

r 1127 9.143 29+108

>udd>ap>as>macsyma_objects>macsyma

>udd>ap>dpr>installed>lisp

>UDD>M>Wolnan>trace

help sked
(45 lines in segment.)
April 9, 1973

The following is a list of available 645 lines.

| Baud Rate | Ext. Numbers | Number of Sets |
|-----------|------------------|----------------|
| 110 | 8-6111 to 8-6118 | 8 |
| 134 | 8-8111 to 8-8148 | 38 |
| 150 | 8-7115 to 8-7118 | 4 |

New Multics operating schedule:

| Monday and Wednesday | Tuesday and Thursday |
|--------------------------------------|-------------------------------------|
| 0000 - 0300 small configuration | 0000 - 1000 small config. |
| 0300 - 0700 Salvager, Save and PM | 1000 - 1800 large config. |
| 0700 - 0800 possible Special Session | 1800 - 2000 small config. |
| 0800 - 1000 small config. | 2000 - 2400 large config. |
| 1000 - 1800 large config. | |
| 1800 - 2000 small config. | |
| 2000 - 2400 large config. | |
| Saturday | Sunday |
| 0000 - 0500 small config. | 0000 - 0800 small config. |
| 0500 - 0700 Salvager and Save | 0800 - 2400 generally large config. |
| 0700 - 0800 possible Special Session | |
| 0800 - 2400 generally large config. | |

In addition, whenever the development time is not being used, the equipment will be added to the service configuration. Likewise when the full configuration is scheduled and there are fewer than 20 users, the second processor and third memory may be removed from the service to form a development machine for development use or to allow FED to work on questionable equipment. Exceptions to this schedule and confirmations of special sessions will be noted in schedule.info and the message_of_the_day.

(END)

r 1128 5.828 68+68

help lisp_changes
(6 lines follow)
03/22/73

The current version of LISP is not planned to be upgraded for the new Multics machine (the 6180). Instead a new and slightly incompatible version will be installed. All LISP users should contact Dave Reed (room 501 Tech. Square - phone 3-6013) for details on the conversion necessary. 21 lines follow. More help? yes

This file documents all changes to the LISP subsystem, located in the Development system. They are listed in reverse chronological order. 7/30/71

Support procedures for object programs produced by the forthcoming lisp compiler were added to the interpreter. No change should be visible to users.

7/26/71

The LISP interpreter, and the functions save, defsubr, and subr_info, were replaced along with the lisp command in order to incorporate a change in the internal format of subr links which allows use of the standard Multics subroutine linkage mechanism for snapping pointers to function entry points. The internal subroutine lisp_link_, which formerly performed this task, was deleted. This change makes all existing saved environments invalid. The user

of subr links contained within. Such a program is available from David Reed (who can be reached via the mail command, in the MultImp project).

9 lines follow. More help? yes

6/21/71

An automatic garbage collector has been added to the lisp system. This fact should not affect the user particularly, except for the fact that most programs will make more efficient use of storage. The user may still call the garbage collector on his own, as the lisp function "gc".

Rest of segment has 12 lines. More help? yes

6/16/71

A modification was made to the LISP interpreter system, such that all machine language functions are now SUBRs called in the standard manner. In the past, some functions (such as quote, cons, eq...) were treated as special cases and had no value as variables. Any saved environments generated before this change will not work, and must either be regenerated or modified. The modification may be made by an exec_com, which can be obtained from David Reed (Reed MultImp) if necessary.

(END)

r 1129 9.511 75+97

mail

2 messages, 9 lines.

From: Pogran.CompNet 04/10/73 1129.6

Logging in from AI can be hazardous to your password.

From: Gintell.Multics 04/01/73 1418.2

Limits have been set on your Multics project usage. Please use resource_usage to discover whether you have remaining "funds".

mail: Delete? yes

r 1130 4.842 55+90

ru

Saltzer.Multics Report from 04/01/73 0841.6 to 04/10/73 1125.8

Month-To-Date Charge: \$ 1.47;

Resource Limit: \$ 75.00;

Interactive Usage: \$ 1.47; 2 logins, 0 crashes.

shift \$charge \$limit

1 1.47 open

Absentee Usage: none;

I/O Daemon Usage: none;

r 1130 2.979 8+9

mail * Pogran CN

Input

Ken,

thanks for the warning, but i am trying out the new

Terminet 1200. It is a neat dv#evice! I will try to change my password somet

when I get bqck.

..

.

r 1132 20.286 408+229

copy mipt_ada30 mipt

copy: Name duplication. Do you want to delete the old segment mipt? yes

r 1132 7.474 63+137

sa mipt rewa

^H11

r 1133 2.972 28+105

line_length: Expected argument missing.

r 1133 1.355 0+51

loop 1 10 @loop 1 1000 10

cpu b 7
cpu a 6
mem c 128. on
mem d 128. on
mem e 128. on

44 short and 5 long interrupts.

musecs mips
993 .304 0
980 .308 5
967 .312 1
955 .316 12
943 .320 4
932 .324 4
920 .328 0
909 .332 1
898 .336 0
888 .340 0
877 .344 0
867 .348 0
857 .352 0
848 .356 4
838 .360 0
829 .364 1
820 .368 0
811 .372 1
803 .376 0
794 .380 4
786 .384 10
778 .388 18
770 .392 14
762 .396 23
755 .400 33
747 .404 40
740 .408 56
733 .412 44
725 .416 29
719 .420 33
712 .424 81
705 .428 245
699 .432 281
692 .436 43
686 .440 5
680 .444 2
674 .448 0
668 .452 0
662 .456 0
656 .460 0
650 .464 0
645 .468 0
639 .472 0
634 .476 0
629 .480 0
623 .484 0
618 .488 0
613 .492 0
608 .496 1
604 .500 0

average mips = .421
each trial 302 instructions

cpu b 7
cpu a 6
mem c 128. on
mem d 128. on
mem e 128. on
r 1134 14.572 113+156

100p 7 1000 7
cpu b 7
cpu a 6
mem c 128. on
mem d 128. on
mem e 128. on
27 short and 6 long interrupts.

musecs mips
993 .304 0
980 .308 2
967 .312 1
955 .316 1
943 .320 1
932 .324 2
920 .328 1
909 .332 1
898 .336 1
888 .340 3
877 .344 3
867 .348 1
857 .352 1
848 .356 0
838 .360 3
829 .364 0
820 .368 2
811 .372 2
803 .376 4
794 .380 2
786 .384 0
778 .388 0
770 .392 2
762 .396 2
755 .400 2
747 .404 0
740 .408 0
733 .412 3
725 .416 3
719 .420 0
712 .424 16
705 .428 25
699 .432 63
692 .436 102
686 .440 64
680 .444 99
674 .448 106
668 .452 73
662 .456 19
656 .460 16
650 .464 34
645 .468 105
639 .472 20
634 .476 9
629 .480 14
623 .484 14
618 .488 23
613 .492 38
608 .496 117
604 .500 0

average mips = .455
each trial 302 instructions

cpu b 7
cpu a 6
mem c 128. on
mem d 128. on
mem e 128. on