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MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
PROJECT MAC

Reply to: Project MAC  
545 Technology Square  
Cambridge, Mass. 02139

Telephone: (617) 253-6016

Mr. Robert Scott, Director  
Information Processing Services  
Room 39-565

Dear Bob:

Here is a chronology of the Project MAC/ARPANET interaction, as best as we can determine from old memos:

- January 19, 1971            Multics and the Dynamic Modeling PDP-10 at Project MAC exchanged bits via the ARPANET. No protocols were yet embedded in either system.
- August, 1971             Dynamic Modeling PDP-10 at MAC first appeared up as a serving host (TELNET protocol only)
- September 24, 1971     Multics came up as a serving host. (TELNET protocol only)
- March 8, 1972            A.I. Lab PDP-10 on net as a serving host.

As of January, 1972, use of Multics via the net was restricted by access control lists. We do not have immediately available any record of the access control list at that time, but if a Multics dump tape from that period is available, it may be possible to reconstruct it.

Enclosed is a copy of a BBN report indicating the status of each host on the net at that time.

Sincerely yours,

Jerome H. Saltzer  
Associate Professor  
Head, Computer Systems Research Division

JHS/mw

Enclosure

xc: M. L. Dertouzos

Network Working Group  
RFC #298  
NIC #8486  
Categories: F, G.3  
Updates: RFC 293  
Obsoletes: None

Ellen Westheimer  
BBN  
1 February 1972

### NETWORK HOST STATUS

This RFC reports on the status of most Network Hosts from January 17 to January 28.

Several Hosts are currently excluded from the daily testing. These Hosts fall into two categories:

- 1) Hosts which are not expected to be functioning on the Network as servers (available for use from other sites) on a regular basis for at least two weeks. Included here are:

<u>Network Address</u>	<u>Site</u>	<u>Computer</u>
133	BBN	PDP-10 (B)
13	Case	PDP-10
15	Ames/(Paoli)	ILLIAC/(B6500)

- 2) Hosts which are currently intended to be users only. Included here are the Terminal IMPs, which are presently in the Network (AMES, MITRE, NBS and BBN\*). This category also includes the Network Control Center computer (Network Address 5) which is used solely for gathering statistics from the Network. Finally, included among these Hosts are the following:

<u>Network Address</u>	<u>Site</u>	<u>Computer</u>
7	Rand	IBM-360/65
73	Harvard	PDP-1
12	Illinois	PDP-11
19	NBS	PDP-11

NOTE: During this interval both the UTAH PDP-10 and the RAND PDP-10 became Network servers.

The tables on the next two pages summarize the Host status for this period.

\*The BBN Terminal IMP (Network Address 158) is a prototype and as such is frequently not connected to the Network, but being used to refine and debug the Terminal IMP programs.

NETWORK ADDRESS	SITE	COMPUTER	DATE AND TIME (EASTERN)									
1	UCLA (NMC)	SIGMA-7	1/17 1800	1/18 1730	1/19 1000	1/20 1500	1/21 1730	1/24 1430	1/25 1630	1/26 1730	1/27 1300	1/28 1530
65	UCLA (CCN)	IBM-360/91	#H	0	#D	0	0	0	0	0	0	T
2	SRI (NIC)	PDP-10	0	0	0	0	0	0	0	0	0	0
66	SRI (AI)	PDP-10	D	D	D	D	D	D	D	D	D	D
3	UCSB	IBM-360/75	0	0	0	D	0	0	0	D	0	0
4	UTAH	PDP-10	T	T	#T	0	0	0	0	0	0	0
69	BBN (10X-A)	PDP-10	0	0	D	0	D	0	D	0	0	0
6	MIT (Multics)	H-645	0	T	0	D	0	R	0	D	0	D
70	MIT (DM)	PDP-10	D	D	0	0	D	0	D	T	0	H
71	RAND	PDP-10	D	D	0	D	D	T	D	D	0	D
8	SDC	IBM-360/155	#D	#D	#D	#D	#D	#D	#D	#D	#D	#D
9	HARVARD	PDP-10	0	#D	0	#D	#D	#R	#R	0	0	0
10	LINCOLN LABS	IBM-360/67	D	H	T	H	H	H	D	H	T	H
74	LINCOLN LABS	TX2	#D	#T	#D	R	0	0	0	0	0	T
11	STANFORD	PDP-10	D	D	D	D	D	D	D	D	D	D
14	CARNEGIE	PDP-10	H	H	H	H	H	D	H	H	D	H
16	AMES	IBM-360/67	D	D	D	D	D	D	D	D	D	D

where

D = Dead (Destination Host either dead or inaccessible [due to network partitioning or local IMP failure] from the BBN Terminal IMP.)

H = 1/2 Open (Destination Host opened a connection but then either immediately closed it, or did not respond any further.)

O = Open (Destination Host opened a connection and was accessible to users.)

R = Refused (Destination Host returned a CLS to the initial RFC.)

T = Timed out (Destination Host did not complete the ICP and open a connection within 60 seconds.)

\*The only service currently offered by the UCLA IBM-360/91 is a Network Job Service (NETRJS), however, the BBN Terminal IMP is not equipped to test NETRJS. We are assuming that initial connection to the NETRJS logger indicates that NETRJS is also functioning.

#These sites advertise that they may not have their system available at these times.

NETWORK ADDRESS

"STATUS OR PREDICTIONS" OBTAINED FROM

STATUS OR PREDICTION

COMPUTER

SITE

NETWORK ADDRESS	SITE	COMPUTER	STATUS OR PREDICTION	"STATUS OR PREDICTIONS" OBTAINED FROM
1	UCLA	SIGMA-7	Server (#Limited)	Jon Postel
65	UCLA	IBM-360/91	Remote Job Service now, Telnet in April	
2	SRI (NIC)	PDP-10	Server	Bob Braden
66	SRI (AI)	PDP-10	"Soon"	John Melvin
3	UCSB	IBM-360/75	Server	Len Chaiten
4	UTAH	PDP-10	Server	Jim White
5	BBN (NCC)	DDP-516	Server	Barry Wessler
69	BBN (TENEX-A)	PDP-10	Never	Alex McKenzie
*133	BBN (TENEX-B)	PDP-10	Server	Dan Murphy
6	MIT (Multics)	PDP-10	Server (Experimental)	Dan Murphy
70	MIT (DM)	H-645	Server	Mike Padlipsky
7	RAND	PDP-10	Server	Bob Bressler
71	RAND	IBM-360/65	User only	Eric Harslem
*73	SDC	PDP-10	Server	Eric Harslem
9	HARVARD	IBM-370/155	Server	Bob Long
*73	HARVARD	PDP-10	Server	Bob Sundberg
10	LINCOLN	PDP-1	User only	Bob Sundberg
74	LINCOLN	IBM-360/67	"Soon"	Jcel Winnet
11	STANFORD	TX2	Server	Will Kantrowitz
*12	ILLINOIS	PDP-10	"Soon"	Andy Moorer
*13	CASE	PDP-11	User only	John Cravits
14	CARNEGIE	PDP-10	March	Charles Rose
*15	AMES/(PAOLI)	PDP-10	"Soon"	Hal VanZouren
16	AMES	ILLIAC/(B6500)	September	John McConnell
*17	AMES	IBM-360/67	"Soon"	Wayne Hathaway
*17	MITRE	TIP	User only	
*19	NBS	TIP	User only	
*17	NBS	PDP-11	User only	
*153	BBN	TIP (Prototype)	User only	

Robert Rosenthal

\*Host not included in daily testing.

\*The NMC is a research site and would like to have prior arrangement with each user.