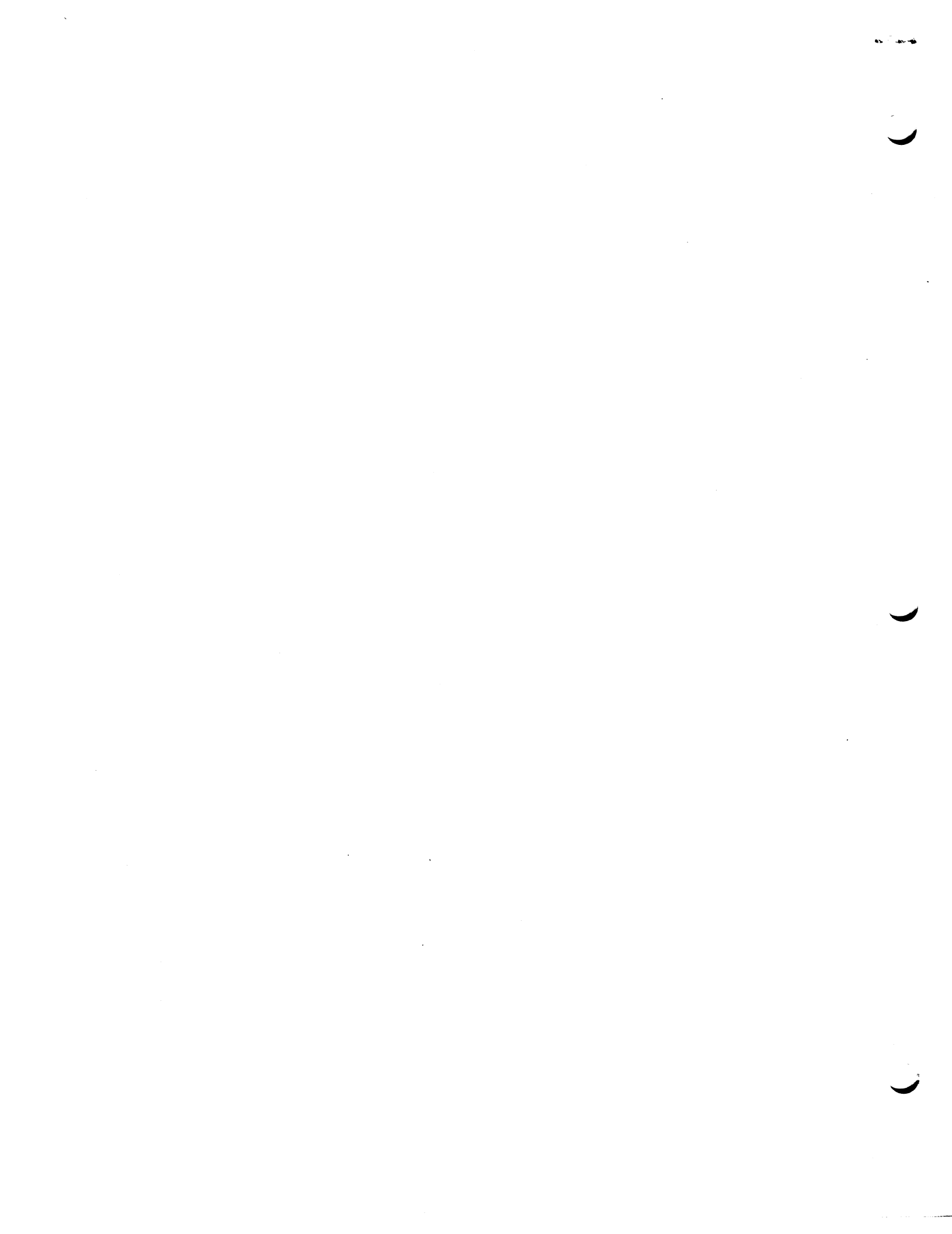


To: Distribution
From: C. T. Clingen
Date: October 14, 1974
Subject: Status of 1974 Hardcore Multics Enhancements

The attached letter updates the information in MTR-050, Our objective is to get most of these extensions to Phoenix by November 1 (FW-44). As the letter indicates, we have done fairly well. Except for some bug fixes (which can be installed after November 1 without too much trouble) and performance enhancements, the only significant problem is the PRU1200 software -- and that slipped because hardware availability has been a problem.

Because so many of these changes involve new hardware, unusually thorough communication and coordination are essential between Phoenix and Cambridge if we are to meet the schedule for field release; so please be alert for potential coordination problems before they become disasters.



HONEYWELL INTEROFFICE CORRESPONDENCE

DATE: OCTOBER 11, 1974
TO: M. M. PACELLI
FROM: C. T. CLINGEN
DIVISION: CISL/CEO
SUBJECT: LATEST STATUS OF 1974 MULTICS ENHANCEMENTS

CC: JW Gintell
MJ Grady
BS Greenberg
MD MacLaren
RM May
MA Meer
RF Montee
NI Morris
WS Silver
E Stone
TH VanVleck
DR Vinograd
SH Webber

This updates the schedules given in a letter of July 11, 1974 subsequently published as MTR-050. The first table is an update of the table published previously. The second table reorganizes the information, giving schedule estimates for software changes still required for SR2.0.

<u>FEATURE</u>	<u>DEVELOPMENT COMPLETED</u>	<u>SHIPPED TO PHOENIX</u>
1. Cache Software	Completed	Already shipped
2. Entry Model Console	Completed	Already shipped
3. MTS500	Completed	Already shipped
4. Remote I/O	Completed	Already shipped
5. Terminet 1200 DIM	Completed	Already shipped
6. URC Reader/Punch	Completed	FW-42
7. On-line T&D Support for CR, CP, Console	Completed	FW-43
8. On-line T&D Support for Tape	Completed	FW-43
9. URC Printer(PRT303)	Completed	FW-44
10. URC Printer (PRU1200)	See Notes	
11. More than 2 CPU's	See Notes	
12. NPL Names	See Notes	

NOTES

The following notes apply to items in the above table.

1. Cache Software: Software running on System M Service; however suspected hardware problems may be masking additional software bugs. Additional hardware/software exposure is required before the situation can be evaluated.
4. Remote I/O: Three more bug fixes will be submitted to MIT FW-43.
5. Terminet 1200 DIM: Bug fix submitted to MIT FW-41; ship FW-44.
7. On-line T&D Support for CR, CP, Console: Operator Console software submitted to MIT FW-41; ship FW-44.
9. URC Printer (PRT303): Prerequisite for PRU1200.
10. URC Printer (PRU1200): Noel Morris to Phoenix FW-42 to check out hardware with uninstalled software. Special coordination required for subsequent installations (at both MIT and Phoenix) and bug fixes.
11. More than 2 CPU's: Testing with three CPU's awaiting hardware. No CISL support requirements in Phoenix currently anticipated. Careful hardware coordination and testing required. Careful attention must be paid to potential hardware gating problems (e.g. timeouts on "read-alter-rewrite" cycles). Four CPU checkout requires additional work, planning and coordination.
12. NPL Names: We are proceeding with plans to incrementally update terminology to reflect NPL names as software is replaced.

ESTIMATED NEW SYSTEM INSTALLATIONS AT MIT

The following table contains much of the information given above but is organized by estimated date of installation at MIT.

<u>System</u>	<u>Contents</u>	<u>Estimated MIT Installation Date</u>	<u>Estimated Date to Ship to Phoenix</u>
23.20	TN1200 Upgrade	FW-40	FW-41
24.0	Base for new peripheral software	FW-41	FW-42
24.1	On-line T&D support; URC Reader, Punch	FW-42	FW-43
24.2	PRT303 software; TN1200 bug fix; MDS2400 bug fixes; Operator Console On-line T&D Support	FW-43	FW-44
24.3	Bug fixes	FW-44	FW-45
24.4	EIS version of Directory Control	FW-45	FW-46
24.5	PRU1200 Software	?	FW-52

Note: Additional performance improvements will be scheduled as requirements for achieving MIT performance benchmark are determined; these changes may be too late for inclusion in MR2.0 however.

NOTES

The following notes apply to the above table.

1. System 24.2: Must be coordinated with Salvager change for printer (PRT303).
2. System 24.4: Must be coordinated with Salvager change for directory hash table change.
3. System 24.5: Must be coordinated with Salvager change for printer (PRU1200).

