To: Distribution

From: F. C. Smith

Date: November 18, 1975

Subject: Multics General Development Subgroup Status Report

<u>Meeting Schedule</u> <u>Those Attending</u>

October 30, 1975 Dennis Capps, Tim Dempsey, Gary

Dixon, Ross Klinger, Txom McGary, Janice Phillipps, Roger Roach, and

Frank Smith.

November 13, 1975 Dennis Capps, Tim Dempsey, Txom

McGary, Janice Phillipps, Roger

Roach, and Frank Smith.

### 1. Tapes (Ross Klinger and Janice Phillipps)

The tape\_in/tape\_out MTB is still somewhere in the publication mill at Honeywell. Some new ideas have been received since the MTB was finished, and are under consideration.

The entries for tape\_ioi\_ have all been defined, but there is still come controversy over the names that some of them should have. There are 23 entries, and they will do everything that is possible with the tape drives. While Janice, Bill Silver, and Ross have all been working on the design of tape\_ioi\_, it is not on anyone's task list, and it remains to be decided who is going to implement and document it. If PDO does all the work, we will be putting in more than the one person-year that we have committed to the tape project. We would rather spend the time working on features that are visible to users.

The tape\_archive command is waiting for resources. It needs more design work.

Janice mentioned that a tape dump facility for Multics is necessary. Two users have turned up in the past week with tapes that the standard DIM's could not read because of hardware errors. SIPB has a tape dump program, but it lacks some features that are necessary for a general tape dumping facility.

Multics Project internal working documentation. Not to be reproduced or distributed outside the Multics Project.

Janice is waiting for time to test the latest changes to the spooler. These changes will provide an option to use 800 bpi or 1600 bpi to write the tape.

### Runoff (Dennis Capps and Tim Dempsey)

Tim has started to work with Dennis on the OS version of runoff. The programs have all been compiled and link-edited, and debugging is going well. The current version can handle plain text with headers, footers, and footnotes, but the more complicated features of runoff remain to be tested. A usable version is expected to be finished by the end of November, and installation of runoff on OS is scheduled for the end of the year.

Problems that still exist include the large region required and the choice of a tradeoff between a common runoff for both 05 and Multics and efficiency on both systems. It is hoped that the final version of runoff will be able to process plain text in a small region, but use of the more esoteric features of the program will probably require more storage.

It was decided that the OS version of runoff should accept only one file name on the command line. This will result in some reduction in the region size, and is not considered to be an inconsistency between the two versions, as command line formats are a system-dependent feature.

### 3. Library Tools (Gary Dixon)

The library tools subgroup has disbanded, since Gary is the only person left working on library tools. Gary's library tools work has been brought into the General Development Subgroup. There is no definite completion date for this work, as other projects, such as the JANUS system have priority, and Gary will spend only a small amount of time on library tools.

# 4. Consistent System (JANUS) Support (Gary Dixon and Txom McGary)

Txom and Gary spent four days at a seminar learning about the internal structure of the JANUS system. The JANUS bug report phone has been turned on, and they will start fielding JANUS problems soon.

## 5. User Accounts Support (Frank Smith)

The bug fixes to make new\_proj delegate a project properly are almost ready to try out in the system administration library.

A new problem has turned up in the monthly billing programs. With the larger number of projects now on the system, the program which resets the disk usage figures in the directories get a KST overflow. The change to correct this is a minor one, to terminate each directory after resetting its disk usage.

## 6. Minicomputer Support (Frank Smith)

The situation at the Sloan School is almost back to where is was before the head crashes cause the loss of out work on Rev. 8 of DOSVM. The Rev 8 changes have been reentered, and the new system is waiting for time to check it out.

LNS has acquired a CAMAC branch driver for its Prime computer, and has several modules which they intend to use the computer to control. CAMAC is a set of standard interfaces for using a computer to control lab equipment and other peripherals. LNS has asked PDO to provide software to operate their equipment under the Prime operating system.

SROUPPDO: Muttics Support	Group		16/75	PAGE_12
PROJECT Multics General Developmen	nt Subgroup	AREA	Genera	ral Develorment
TASK DESCRIPTION	PERSONNEL	START FIN	FINISH P-W	CHANGES-STATUS
Consistent System Support	Dixon	7	2001	Emphasis is currently
	McGary	Tar SK	-	on the Janus Subsystem
Mini-computer Support! LNS and	Smith	sonti nying	1 50%	KING ON CAMAC
Sloan Prime 300"s	ACKETEBOT -	+atok		CAS and reinstalling
Mini-computer Support Interface	SEL+1	contlinuing	1 2 2	Rar I Y
with POP11 Users Group		Taist Taist		#ee+ings
User Accounts Support	Smith	contituuing	1 502	on fixes
		tat sk		billing
			7	ses to edit prol
Library toofs: complete and	noxid I	-	HO-T	Task currently delayed to due to work on JANUS
sort_seg: MTB on duplicate line elimination	Kiinger		H	Maining for some free time
Runofft Multics PL/I version	Capps	HO-9:52790710:42720790:	MO-915279	In trial use by
		106/03/74103/12/75 1 1	.2/7517.0MI	(Honeywell and MIT)
Runoff & OS version	Capps		06/27/75 2.0M1	
	Demosey	103/1//5111/2	11/26/75/8•UMI	
Runofft Performance Improvements	Capps	-	12.0M	It have to reduce
	Dempsey			on TSO
Runoff Enhancements	Capps			-
				determined later

Task delayed by work on

Almost done

111/28/7513.0M1

New MTB IS

spooter.

107/28/75112/31/751

Phi IIIpps

Kilnger

Tapest complete tape\_ansl\_

tape\_Ibm\_ PLM

BILL Silver is writing the MTB

102/01/75112/31/7512.0H1

Kilnger Phiilipps

Tapes: design tape\_lol\_

Tapest tape\_in/tape\_out

GROUP PDO: Muitics Support	Group		75 PAGE_2_/2
PROJECTMuitics General Developmen	nt Subgroup	AREA	General Development
TASK DESCRIPTION	PERSONNEL	START FINISH P-W	P-W CHANGES-STATUS
Tapest design tabe_raw_		192750710	i tape_loi_ design
Tapes: tape utilities	Kiinger Philipps		specifications to be
Tapest copy_file	Kilnger	•••••	MTB published and design review held
Tapes: augment analyze_device_	K-Linger Horris		11.0M neeced for tape_loi_
Tapest universal 9 bit to 9 bit code convertor	X Inger		30 2