To: MTR Distribution

From: Multics Library Tools Interim Subgroup

Subject: Status of Library Tool Development

Date: October 7, 1975

SIGNIFICANT EVENTS

Grace has finished coding and debugging the
library_descriptor command, and Peter has finished coding and
debugging library_cleanup. Comments are being added to both
commands and library_cleanup is undergoing the final test, actual
cleanup of the Multics System Libraries.

Gary has submitted the second draft of the Library
Maintenance PLM (Order No. AN80) for publication as an MTB. It
should be coming out soon.

CURRENT STATUS

Grace has finished coding and debugging library_descriptor.
She is now adding the final comments to the code, after which it
will go through an internal audit for consistency with the other
library maintenance tools, and will then be submitted for
installation.

Peter has finished coding and debugging library_cleanup, and
is now using the new command to cleanup the Multics System
Libraries on a regular basis. This too will go through a brief
internal audit, after which it will be submitted for
installation.

Dave continues to edit the Library Maintenance PLM, and has
suggested several revisions which are under review now.

Gary's progress has been slow, but the end of the tunnel is
visible at last. After completing the writing and assembly of
the PLM, he upgraded the call command to use in testing several
changes in library maintenance subroutines. The upgraded
command, called new_call, was used to checkout a new version of
the tct_ subroutine. Work is now underway to extend the library
subroutines to handle the remaining status information (Task 2.1
on attached sheet).

PROBLEMS

Gary's work on the library tools has been slowed by several factors. First, of the 60% of his time previously allocated to library tools, 30% is now being spent on Janus. This Janus time will continue and increase in the future.

Second, increased system load and poor system reliability over the past two weeks have decreased productivity. About 10 hours of working time were lost, due to clobbered directories, system unavailability, and work that had to be redone. More time has been lost battling with a full system, now that Billerica is using MIT's Multics. Hopefully, at least system reliability and availability will improve over the next few weeks.

Third, the rate of interruptions of Gary's work has increased, and this also reduces productivity. Hopefully, this interruption rate will decline during the next few weeks.

COMING EVENTS

DATE	EVENT
October	Gary finishes library descriptor commands
October	library tools submitted for installation

PROJECT _____ Library Maintenance Tools Project _____ AREA _____ library descriptor tools _____

TASK DESCRIPTION	PERSONNEL	START	FINISH	P-M	CHANGES-STATUS
1) Library Maintenance PLM (see subtasks below)	Dixon	06/23/75 06/23/75	06/27/75 09/09/75	3.8 60%	DONE
1.7) Section XIV: lfree_name, update_seg command descriptions	Dixon			0.4 1.2	DONE
2) Coding of Library Tools (see subtasks below)	Dixon	07/14/75 08/29/75	07/23/75 10/23/75	1.3 30%	Underway
2.1) primitives: get and output misc. status info	Dixon		10/08/75	0.1 0.2	Underway
2.2) library_fetch, library_info, library_map, library_print: upgrade to meet MCRB requirements	Dixon		10/15/75	0.2 0.4	
2.3) library_info, library_map, library_print add control arguments for new info returned by primitives	Dixon		10/15/75	0.2	
2.4) submission_test: fix bugs in use of library descriptor	Dixon		10/16/75	0.1	
2.5) internal audit of library_descriptor and library_cleanup	Dixon		10/20/75	0.2	
2.6) finish up submission of tools for installation	Dixon		10/23/75	0.2	
3) reduction_compiler: finish command description	Dixon			0.3	

PROJECT _____ Library Maintenance Tools Project ____ AREA _____ library descriptor tools ____

TASK DESCRIPTION	PERSONNEL	START	FINISH	P-M	CHANGES-STATUS
4) Write Other PLM Documentation (see subtasks below)	Dixon			2.0	40%
4.1) Section I: Introduction	Dixon			0.2	
4.2) Section II: Library Organization	Dixon			0.2	
4.3) Section III: Multics System Libraries	Dixon			0.2	
4.5) library_descriptor_compiler: program logic	Dixon			0.2	
4.6) library descriptor commands: program logic	Dixon			0.4	
5) library_descriptor: code command	Ackerman-- Lewis	09/02/75 08/18/75	09/12/75 10/02/75	2 60%	DONE *
6) library_cleanup: document and code command	Kelley	08/13/75	09/02/75 10/02/75	2	DONE *