

Maintenance is a major problem. Some help will be prompt publication of MSPM sections on new or altered commands and if possible telephone notification to J. Bash when a pertinent section is available or when some draft information can be used.

Initially, we have some idea of what IPC and library routines to work on but, particularly on utility packages, they are likely to mushroom as needed. The chances are slim that we can maintain the MUP in any shape close to completeness without plenty of word of mouth information on a weekly basis.

Work has been delayed because of system down-time. If a programmer were available and had priority, he could probably save the current writer from spending too much time at the console on this. The programmer would have to be a generalist like the writer - i.e., we want examples done in both PL and FORTRAN and edited in both QED and EDM, extensive use of Probe and calls to Multics User Procedures, etc. Writing of explanatory text and arrangement of material would still be the writer's responsibility.

Perhaps the most postponable of the manuals. The problem is that nothing concise on design has been written; when pressed we still fall back on the FJCC papers.

The task is one of pulling together and arranging in useable format; no further assistance from programming personnel than is now available is required.

TITLE CONTENTS AND FORMAT

Multics Condensed Guide (MCG)  
update and reissue entire book:  
format same

200

95%

6/1/69

Multics User Procedures (MUP)

Initially published in 4 parts as available, ordinary page size. When bulk of work is completed, a more desirable format may be found.

- 1. File System 45
- 2. I/O calls 30
- 3. IPC 25
- 4. Utility routines 70

User Interface to Multics (UIM)

A straightforward "how to use Multics" for the novice, taking the user from getting on system, creating segment, editing, compiling, running, debugging, making external calls, making directory and entry changes, etc. The book references both the MCG and the MUP as needed.

≤50

10%

9/1/69

Multics Operating System (MOS)

A brief, simple presentation of basic design concepts - segmentation, paging, user and segment access control, faults and fault handling, linkage, etc. Strictly for the curious user.

≤50

15%

Multics Operators' Handbook (MOH)

Pocket-sized, completely tabbed handbook for operators. Needed to bring together and standardize procedures.

60

20%

HOW PROGRAMMERS CAN ASSIST PUBLICATION

TITLE CONTENTS AND FORMAT PUBL. DATE

TITLE CONTENTS AND FORMAT	%DONE	PAGES	PUBL. DATE
<u>FORTRAN IV</u>	70	<100	
<u>PL/I Users Handbook</u>	30	120	
or			
<u>EPL Users Handbook</u>	20	120	
<u>QED Users Handbook</u>	0	60	

Publication date as well as manual completion is dependent upon the implementation and manual review. Probably, 9/1/69 is a reasonable date.

Either a PL/I or an EPL users manual will probably be needed depending upon what is offered users at the time. The date of such a publication is entirely dependent upon priorities assigned the various manuals mentioned previously as opposed to this one. The PL/I or EPL Users Handbook is at this time at least free of implementation considerations.

The MCG writeup on QED is inadequate in regard to sophisticated features available in QED. A programmer who has used QED extensively could probably list some of the available processing features with examples taken from console sessions. This would help speed up production of a manual considerably. At best, publication would depend upon priorities assigned all manuals.

One or more languages will added later to the system. These can be written as needed during 1970.

Other Languages for 1970

- AED
- BCPL
- BON
- COBOL
- FL
- MAD
- TRAC
- etc.

80 130

NOTES: What GE documentation with present staff and minimum assistance can produce by 1 September 1969 is:

Package A: Rev 2 of MCG - ~~minimal~~ maintenance until 1970  
MUP - ~~no~~ maintenance until 1970  
Either the UIM, MOS or MOH with real luck two of them  
FORTRAN IV

} + MUM Part I (Radlitzky)

} Second priority - PL/I Handbook

Package B Rev 2 of MCG as above  
MUP - file system and library procedures  
Either the UIM, MOS, or MOH  
FORTRAN IV and PL/I or EPL handbook

Package C Rev 2 of MCG  
MUP file system and library procs  
FORTRAN IV, a PL, and QED  
Some but not all of the other MUP procedures.

By 1 January 1970

Add 100 additional pages of any selected manuals or parts of manuals.  
Some maintenance on MCG and MUP.