

TO: MIB DISTRIBUTION  
 FROM: Cynthia W. Anderson  
 DATE: July 29, 1977  
 SUBJECT: ONLINE INSTALLATION CHANGES

\*\*\*\*\*  
 The following is a list of changes to the standard service system, tools, network, unbundled, auser maintained and installation maintained libraries for the week beginning July 25, 1977.

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MCR # : Explanation briefly summarizing the modification.

DATE	SEGMENT NAME	LIBRARY
	COMPONENT changes (if any)	

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MCR's 2679 & 2735: Installed new bound\_probe\_ and bound\_debug\_util\_ (SSS) with changes to the break strategy so that probe will now work correctly with COBOL. Old-style breaks will still function, but users attempting to set new breaks in programs which already have old breaks will be asked to reset all old breaks and then set the new ones.

07/28/77	1455.3	bound_probe_ replaced in SSS
	replaced:	break_manager_ probe_map_sequence_
07/28/77	1455.3	bound_debug_util_ replaced in SSS
	replaced:	interpret_op_ptr_

U1B of 7-29-77

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Massachusetts Institute of Technology  
Honeywell Information Systems  
Multics System Change Request

Change # 1066

System # \_\_\_\_\_

MR # \_\_\_\_\_

MCR # 2679

2735

- A.  Hardcore  BOS  MCS
- Standard  Tools  Languages  Unbundled
- Network  AML  IML  Other \_\_\_\_\_
- B.  New Feature  Improve Performance  Trap Bug  Fix Bug  Upgrade
- C. Urgency:  Critical  Normal  Low Priority

D. Effect of change (include User & Operational impact): probe will now handle breakpoints in cobol programs correctly. However, a new break strategy was needed for programs which try to set a new break in a program with breaks already set will be asked to reset all breaks and then set the new breaks.

E. Hardcore, or BOS:  Header,  Bind File,  Error Table, or  Gate changes?  
If so, attach relevant information. (e.g. compare\_ascii output)

F. Special Installation/De-installation instructions: \_\_\_\_\_

- G. Documentation Changes:  MPM  PLM  MOH  Info Segment  MOTD
- Pending Changes  SRB  Other none

H. Testing procedures used: online testing at MIT

I. Requested/Documented by Richard J.C. Kriel Date 6/16/77

Project MULTICS Phone 492-9319 Address CISL

J. Audited by Susan E. Baw Melanie Weaver Date 6/16/77

K. Documentation Approval by (NA) C. Erickson Date 7/11/77

L. Project Approval by [Signature] Date 7/12/77

M. Installation Approval by [Signature] Date 7/13/77

N. Installed by [Signature] Date 7/20/77

pullled 7-25-77

MSCR Revision 1. See MAB-033 for instructions.

reinstalled 7-28-77

Place  
Notice  
in pending changes  
[Signature]

A.  Unbound segments, or A/R/D  
 bound segment, name: bound\_probe R  
 Move from library \_\_\_\_\_ to library \_\_\_\_\_

C. Source copied from system 6/15/77 ; or, at time \_\_\_\_\_ date \_\_\_\_\_

D. Source  dir or  archive; path: >add>m>Kissel>pending\_installations

E. Object  dir or  archive; path: \_\_\_\_\_

F. Include  dir or  archive; path: \_\_\_\_\_

G. Info  dir or  archive; path: \_\_\_\_\_

H. System Segment Changes:

Segment Name.Type	A/R/D/M	Segment Name.Type	A/R/D/M
<u>break-manage.plt</u>	<u>R</u>		
<u>probe-map-sequence.alm</u>	<u>R</u>		

I. Include / Info / Bind File Changes:

Name	A/R/D	Name	A/R/D

J. Name Changes:

A/D	Names

K. Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- A.  Unbound segments, or  
 Bound segment, name: bound\_probe A/R/D  
R
- B.  Move from library \_\_\_\_\_ to library \_\_\_\_\_
- C. Source copied from system 6/15/77 or, at time \_\_\_\_\_ date \_\_\_\_\_
- D. Source  dir or  archive; path: >add>in>Kisse>pending-installations
- E. Object  dir or  archive; path: \_\_\_\_\_
- F. Include  dir or  archive; path: \_\_\_\_\_
- G. Info  dir or  archive; path: \_\_\_\_\_
- H. System Segment Changes:

Segment Name	Type	A/R/D/M	Segment Name	Type	A/R/D/M
<u>break_manager.pl</u>		<u>R</u>			
<u>probe_map_sequence.atm</u>		<u>R</u>			

I. Include / Info / Bind File Changes:

Name	A/R/D	Name	A/R/D

J. Name Changes:

A/R/D	Names

K. Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ver. 3  
741022

MULTICS CHANGE REQUEST

NCF 8735

TITLE: Change interpret\_op\_ptr\_ to handle cobol operators  
AUTHOR: F. Kissel

STATUS	DATE
Written	08/21/77
Status	A 6/28/77
Expires	12/21/77

MBW

Planned for System: MR 6.0  
Fixes Bug Number(s): not applicable  
Documented in MTE: not applicable  
Incompatible Change: no  
User/Operations-visible Interface Change: no  
Coded in: (E)PL/I ( )ALM ( )other-see below  
Performance: ( )better (E)same ( )worse

CATEGORY (check one)

- ( ) Lib. Maint. Tools
- ( ) Sys. Anal. Tools
- ( ) Sys. Prog. Tools
- ( ) 355
- ( ) BOS
- ( ) Salvager
- ( ) Ring Zero
- ( ) Ring One
- ( ) SysDaemon/Admin
- ( ) Runtime
- (E) User Command/Subr

DOCUMENTATION CHANGES (specify one or more)

MPM (vol,sect)                      MPAM (sect)  
MGSN (sect)                         MSAM (sect)  
PLMs (AN#)  
Info Segs  
Other

Done (reason) doc OK

REJECTIONS/COMMENTS:

Headings are: SUMMARY, REASONS, IMPLICATIONS, DETAILED PROPOSAL (optional)

SUMMARY: Add code to interpret\_op\_ptr\_ to correctly handle cobol operators.

REASONS: interpret\_op\_ptr\_ is used by a number of commands and subroutines such as: probe, debug, trace\_stack, and find\_condition\_info\_. It currently handles pl1 operators and basic operators and should handle cobol operators.

IMPLICATIONS: Proposed  
The method used to handle cobol operators ~~works~~ works in most normal cases. Probable future changes to cobol\_operators\_ (by 6.0) should make it work in almost all cases.

Ver. 3 741022	MULTICS CHANGE REQUEST <i>break mechanism</i>	MCR <u>2679</u>
TITLE: Fix probe to work with COBOL		STATUS   DATE Written   05/17/77 Status   <u>A 5/24/77</u> Expires   11/17/77
AUTHOR: R. Kissel	SEB	
Planned for System: MR 6.0		
Fixes Bug Number(s): not applicable		
Documented in MTB: not applicable		
Incompatible Change: yes		
User/Operations-visible Interface Change: -yes		
Coded in: (X)PL/I ( )ALM ( )other-see below		
Performance: ( )better (X)same ( )worse		
DOCUMENTATION CHANGES (specify one or more)		CATEGORY (check one)
MPM (vol,sect) MPAM (sect)		( ) Lib. Maint. Tools
MOSN (sect) MSAM (sect)		( ) Sys. Anal. Tools
PLMs (AN#)		( ) Sys. Prog. Tools
Info Segs		( ) 355
Other		( ) BOS
None (reason) doc ok		( ) Salvager
		( ) Ring Zero
		( ) Ring One
		( ) SysDaemon/Admin
		( ) Runtime
		( ) User Command/Subr
		(X) User Command/Subr.
OBJECTIONS/COMMENTS:		

Headings are: SUMMARY, REASONS, IMPLICATIONS, DETAILED PROPOSAL (optional)

SUMMARY: Change probe *break mechanism* so that it works with COBOL (and other languages that use a stack protocol similar to COBOL's).

REASONS: probe is supposed to support COBOL.

IMPLICATIONS:

A new version break\_map is needed, so probe will not allow the setting of new breaks in a program which already contains old type breaks. A message will be given if the user attempts to set new breaks. However, all old style breaks will function correctly (except in COBOL programs) and they may be reset without problem. If new breaks need to be set, all old type breaks must be reset first.

DETAILED PROPOSAL:

Change the probe break\_map and break\_slot so the stack return pointer is not used by probe for its own purposes.

TITLE: Change interpret\_op\_ptr\_ to handle cobol operators

AUTHOR: F. Kissel

M.B.W

STATE	DATE
PREPDR	8/12/77
STATUS	A 5/22/77
EXPIRES	12/31/77

Planned for System: MF 6.0  
 Fixes Bug Number(s): not applicable  
 Documented in MTE: not applicable  
 Incompatible Change: no  
 User/Operations-visible Interface Change: no  
 Coded in: (Z)PL/I ( )ALM ( )other-see below  
 Performance: ( )better (Z)same ( )worse

CATCOPY (check one)

- ( ) Lib. Maint. Tools
- ( ) Sys. Anal. Tools
- ( ) Sys. Prog. Tools
- ( ) 355
- ( ) ECS
- ( ) Salvager
- ( ) Ring Zero
- ( ) Ring One
- ( ) SysDaemon/Admin
- ( ) Runtime
- (Z) User Command/Subr

DOCUMENTATION CHANGES (specify one or more)

MPP (vol,sect)                      MPAM (sect)  
 MOSN (sect)                        MSAM (sect)  
 PLMs (AN#)  
 Info Segs  
 Other

None (reason) doc OK

REJECTIONS/COMMENTS:

Headings are: SUMMARY, REASONS, IMPLICATIONS, DETAILED PROPOSAL (optional)

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IMPLICATIONS: *Proposed*  
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