MULTICS STAFF BULLETIN-77

TO:

Distribution

FROM:

S. H. Webber

DATE:

November 6, 1972

SUBJECT:

Follow-On Integration Group Task List

		_ "

DATE	October 26.	1972	PAGE	<u>l of 3</u>	3
DUTE	UCLUDEL 20.	1214	IAGH	<u>t or</u> .	,

יים אוום ביואותיים	TON	Follow-On	Integration	Group	Task	List
-KUMP PINGI	ILMN .					

TASK AREA Currently Needed Tasks

TASK DESCRIPTION	PERSONN	EL	START	FINISH	CHANGES/STATUS	
New 645 F assembler. Document how to use.	RFM	С	2/7 2/21	3/1 4/1	Done.	3
Document stack header and stack frame format.	SHW		12/1	2/22	Done.	1
Document call/push/return changeover strategy.	SHW		12/1 12/1	3/1 3/20	Done.	2
Document follow-on code compatibility. (For users.)	SHW		2/28 3/20	3/17 4/1	Done.	2
Document code sequences for call/push/return.	SHW		2/21	2/28 3/10	Done.	1
Convert hardcore to version II PL/I. Convert include files for alignment.	ALL	М	3/15		In progress.	
Estimate bulk store requirements. Will we have enough?	RBS SHW		6/12	6/19 6/21	Done.	
Design new signalling and crawlout mechanism. Document giving changes.	RJF VLV		3/28	3/27	Done,	4
Scan system to find what changes with new ring hardware.	RJF		2/28	3/27	Don e ,	
New object segment format for ALM. (New macro names.)	RJF		3/6	3/27 5/15	Done.	3

TASK ARRA Currently Needed Tasks

TASK DESCRIPTION	PERSONNEL		START	FINISH	CHANGES/STATUS	
Design ring alarm software, implement it.	SHW NIM	М	3/13	10/2	Done.	6
Convert linker to check for new type ALM programs. (Optional control-call to turn it off.)	CITI	М	3/27	6/30	Done.	3
Remove alarm clock from system.	RJF		12/1	2/28	Done.	0
Figure out how we can get MST's to Phoenix.	RBS DMW (DRV)		3/6. 4/15	4/3 5/19	Done.	,
Do anything necessary to get MST's to Phoenix.	DMW	С	3/6 4/15	4/3 7/3	Done.	8
Implement new stack header and virtual clock.	wss		2/14 2/28	3/13 4/10	Done.	4
How to use bulk store on service with 645 drum?	RBS		4/24	5/8	Done. (Use drum as secondary storage probably.)	2
Write Multics bulk store dim; incorporate into page control.	RBS		4/17 5/8	5/8	Done.	3
Checkout Bulk Store DIM for Multics.		С	4/17	5/8	Done.	
Install Bulk Store on Multics.		C	9/1		When confidence achieved.	

/	,		<i>,</i>
GROUP FUNCTION Follow-On I	Integration Group Task List	DATE October 26, 1972	PAGE 3 of 3
TASK AREACurrently Need	led Tasks		

TASK DESCRIPTION	PERSONNE	EL	START	FINISH	CHANGES/STATUS	
Go thru system checking for RAR difficulties.					First scan complete. Few apparent problems.	
Define tasks for Performance Analysis.	SHW	С	3/1 3/1			
Reassemble system code.	ALL	С		9/1	Done for follow-on.	
Writeup rules for code generation of follow-on code.	SHW		4/17	5/1	Done.	2
Writeup rules and procedures for insuring code compatibility.	SHW	Н	4/17	5/1	Done.	2
Generate program task list for tools/ DEV/SSS.	VLV		3/1 3/8	3/15	Done.	
Fix MST generator to use new key words for access attributes.	SHW		5/15	5/26	Done.	
Fix checker to recognize new key words.	SHW		5/15 5/15	5/26	Done.	

)
		_	

TASK AREA Peripheral I/O Development

TASK DESCRIPTION	PERSONN	EL	START	FINISH	CHANGES/STATUS	
Design the PIM.	NIM RFM	М	1/1	2/28	Initial draft ready for distribution. Not quite complete.	2
Code the PIM.	RBS MAM	М	3/13	4/3	Delayed for other jobs.	5
Modify printer DIM to use the PIM.	RBS MAM	М	3/27	4/10	Delayed for lack of personnel.	1
Modify punch DIM to use the PIM.	RBS MAM	М	3/27	4/10	Delayed for lack of personnel.	1
Modify card reader DIM to use the PIM.	RBS MAM	М	3/27	4/10	Delayed for lack of personnel.	1
Checkout of PIM and new DIM's.	RBS MAM	М	4/10	5/8	Delayed for lack of personnel,	4
Modify printer DCM for PRT-300 operation.	MAM	Н	4/10	5/1		3
Modify IOM software to use address extension for extended IOM.		М				
·		-				

			~

PAGE 1 of 3

TASK AREA BOS Follow-On Tasks

TASK DESCRIPTION	PERSONNE	L	START	FINISH	CHANGES/STATUS	
Write and checkout BOS bulk store DIM.	RBS RFM		5/8	5/22	Done.	2
Write BOS T&D for bulk store.	RBS NIM	С	5/22	6/12	Done.	?
Audit current BOS programs for base register usage.	DRV		3/27	4/3 5/1	Done.	1
Modify BOS to shift interrupt vector to 0 absolute.	DRV RFM WSS (NIM)		3/27 5/1	5/10 5/15	Done.	2
Lay out memory map for Multics boot- loads.	SHW NIM		2/16	2/21	Redone. BOS map has been generated.	1
Modify BOS to understand new control unit format (intfault incl alm).	DRV WSS		3/27 5/1	4 / 17 5/15	Done.	2
Modify BOS for use of new+privileged instructions. Clock readings.	DRV WSS		3/27 5/1	4/17 5/15	Done. 1	2
Implement new LDAC/IMW strategy for IOM.	RFM		3/27	4/3	No change necessary.	1
Modify "APND" to use new hardware SDW/PTW format.	WSS DRV	С	4/10 5/1	4/24 6/16	Done.	2
Write BOS T&D to checkout new follow- on CPU.		Н	4/24	6/12	Tabled.	

TASK AREA ROS Follow-On Tasks

TASK DESCRIPTION	PERSONN	EL	START	FINISH	CHANGES/STATUS	
Write BOS 1 card loader for follow-on.	RFM	C	6/26	6/30 7/15	Done.	1
Modify DESEG+SDW handling internal to BOS.	DRV WSS		3/27 5/1	4/10 5/15	Done.	3
Modify BOS loader (1 card program) for MTS-500.		М				1
Modify BOS loading programs to read tape with MTS-500.	·	М				1
Checkout BOS bootloader with MTS-500 and DSU-181/190.		М				1
Modify BOS MST writing programs (ntape).	·	М			:	2
Checkout BOS ntape package.		M				1
Modify BOS disk DIMS for DSU-181/190.	CLJ	С	9/15	10/20	Done.	2
Checkout BOS DSU-181/190 DIM.	CLJ	С	9/15	11/1	In progress,	1
Modify BOS to reside on DSU-181/190's.	CLJ	С	9/15 9/15	11/20	Done.	2

)
GROUP FUNCTION Follow-On Integration Group Task List	DATE October 26, 1972	PAGE 3 of 3
TASK AREA BOS Follow-On Task	- · · · · · · · · · · · · · · · · · · ·	

TASK DESCRIPTION	PERSONNEL	START	FINISH	CHANGES/STATUS
Checkout BOS running on DSU-181/190's.	CIT C	9/15	11/1	In progress.
Write 355 Dumper and Patcher for Multics core image.	RBS	5/22	5/31	Done.
	·			
	u			
·				

		,

TASK AREA DataNet 355 Development

TASK DESCRIPTION	PERSONNE	L	START	FINISH	CHANGES/STATUS	
Add fast list service subroutine to 355.	RBS		2/8	2/28	Done.	3
Train Doug Wells on HSLA, TTY DIM, etc.	RBS DMW		2/21	5/1	Done.	?
Analyze Phoenix written HSLA init code.	DMW RBS		4/24	5/1 5/5	Done.	1
Design init code.	RBS DMW		5/1 4/24	5/8	Done.	1
Design main module code.	RBS I	Н	5/8 5/8	5/15	Begun.	1
Add HSIA simulation capability to 355 simulator.	RBS I	Н	5/15 6/5	5/22 9/1	Done,	1
Debugging under simulator.	DMW 1	Н	5/22 6/12	6/19	Begun.	4
Debugging on Development machine.	DMW 1	H	6/19	7/17		4
Dynamically reconfigure DN-355.	RBS I	H	9/15	11/1	In progress.	6
Convert software to use DIA instead of ICA.	RBS I	Н	9/1	10/26	Done.	2

TASK DESCRIPTION	PERSONNEL	START	FINISH	CHANGES/STATUS
Make test to see if GIOC simulation will be fast enough.	RB S C	8/1	8/15 8/15	Done. Appears okay.
-				
				·
				,

GROUP FUNCTION Follow-On Integration Group Task List DATE October 26, 1972

TASK AREA New Software Development

TASK DESCRIPTION	PERSONN	EL	START	FINISH	CHANGES/STATUS	
Write programs to save the history reg's.	SHW NIM	C	6/4	6/12	Done.	
Write programs to use the mode register.	SHW NIM	С	6/4	6/12	Done,	
Write GECOS system simulator using BAR mode.		L				
Study MPC and PSIA Specs.	NIM RFM	С	3/13	3/20		1
Study DSS-181 and DSS-190 Specs.	NIM	С	3/13	3/20		1
Study MTS-500 Specs.	NIM	С	3/13	3/20		1
Examine changes to iom_manager for new disk channel.	NIM RFM	С				1
Code changes to iom_manager for new disk channel.		С				2
Examine modification to PIM for DSS-181/190 and MTS-500.		С				1
Design and code DSS-181/190 DIM's (Version 1).	LJS	С				4

TASK AREA New Software Development

TASK DESCRIPTION	PERSONNE	Ŀ	START	FINISH	CHANGES/STATUS	···-
Checkout DSS-181/190 DIMS.	LJS	С				2
Design MTS-500 DCM to use PIM.	·	Н				4
Extend PIM to handle channels with multiple devices.		Н				2
Code MTS-500 DCM.	·	H				2
Checkout MTS-500 DCM.		H				2
Design DSS-190 DIM Version II.		M				
Code DSS-190 DIM Version 11.		М				
Code DSS-190 DIM Version II.		М				
Checkout DSS-190 DIM Version II.		М				
Change term_ to unsnap links in new way (new object segs).						

))
GROUP FUNCTION Follow-On Integration Group Task List	DATE October 26, 1972	PAGE 1 of 1
TASK AREA Miscellaneous		

TASK DESCRIPTION	PERSONNEL	START	FINISH	CHANGES/STATUS	
Let linker make argument type checks (optional control).	CLJ L	3/27	5/8	Tabled,	6
Change binder to make argument type checks (optional control).	Ĺ				
Come up with new ALM manual - for users.	М				
Arrange for more TTY lines for follow- on configuration.	H			Done	
Implement software for ARPA Net on follow-on hardware.	H				
Design dynamic reconfiguration of bulk store (paging device).	RBS M			Tabled,	

			_
		—	