

To: Distribution  
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Date: April 7, 1975  
Subject: Task List for New Storage System  
Phases I and II

## INTRODUCTION

This memorandum describes in detail the tasks which must be completed to bring the new storage system to command level, and then to create a system which can run multiple users.

The following table lists the Phase I and Phase II benchmarks, and the schedule for integration into the new system.

Page Control, Device Control	done
BOS (DUMP only)	04/11
Segment Control	05/15
Directory Control	05/30
Phase I - Command Level	05/30
Post-Command Level Tasks	06/27
Phase II - Multiple Users	06/30

The overall integration strategy which we will follow in implementing the new storage system will be to convert logically-related groups of programs, generate a system tape with the new modules, and verify that the converted programs work correctly.

Choosing this implementation order means that checkout will be accomplished approximately in the order that modules are invoked during the process of system initialization. Since Multics initialization establishes basic facilities first and then uses these facilities to support further initialization (see AN70), the checkout of the new storage system will similarly proceed from the bottom up.

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PROJECT \_\_\_\_\_ Collection 1 \_\_\_\_\_ AREA \_\_\_\_\_ Initialization \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
delete_segs.pl1	AB		04/02/75	1	done
init_sst.pl1	AB		04/02/75	4	done
initialize_dlms.pl1	THVV		04/02/75	4	done
read_disk, write_disk	BSG		04/02/75	1	done
init_empty_disk	AB		04/02/75	1	done

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PROJECT \_\_\_\_\_ Collection 1 \_\_\_\_\_ AREA \_\_\_\_\_ Segment Control \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
make_sdw.pl1	AB		04/02/75	1	done

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PROJECT \_\_\_\_\_ Collection 1 \_\_\_\_\_ AREA \_\_\_\_\_ Page Control \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
bulk_store_control.alm	BSG		04/02/75	2	done
delete_pd_records.pl1	BSG		04/02/75	1	take advantage of pc\$pdflush
free_store.alm	BSG		04/02/75	4	done
get_ptrs_.alm	BSG		04/02/75	2	done
page_fault.alm	BSG		04/02/75	3	done
pc.pl1	BSG		04/02/75	4	done
pd_util.alm	BSG		04/02/75	1	done
post_purge.alm	BSG		04/02/75	1	done

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PROJECT \_\_\_\_\_ Collection 1 \_\_\_\_\_ AREA \_\_\_\_\_ Device Control \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
disk_init.pl1	NIM		04/02/75	2	done
device_control.alm	BSG		04/02/75	1	done
disk_control.pl1	NIM		04/02/75	1	done

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PROJECT          Collection 2          AREA          BOS         

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
cvadd.incl	THVV		04/11/75	1	underway
argmul.incl	THVV		04/11/75	1	underway
setup	THVV		04/11/75	1	underway
loadm	THVV		04/11/75	1	underway
apnd.incl	THVV, BSG		04/11/75	1	underway
bootstrap1.alm	BSG		04/11/75	1	leave notes for apnd; SDW of PVT & SST
absresolve.incl	BSG		04/11/75	2	Uses ASTE.par_ring, ASTE.rep, and entry
dump	THVV		04/11/75	2	ASTE
proc.incl	THVV		04/11/75	1	ASTE

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PROJECT \_\_\_\_\_ Collection 2 \_\_\_\_\_ AREA \_\_\_\_\_ Initialization \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
init_branches.pl1	THVV		05/15/75	14	Major rewrite
init_collections.pl1	AB		05/15/75	10	add call to init_vtloc_segs
init_vtloc_segs.pl1	AB		05/15/75		done
make_branches.pl1	AB		05/15/75	12	call to create VT0C entry too
init_root_dir.pl1	THVV		05/15/75	11	Recompile.
init_sys_var.pl1	THVV		05/15/75	11	Easy. Remove stuff no longer needed.
syserr_log_init.pl1	THVV		04/02/75	12	done
segment_loader.pl1			05/15/75	11	Easy - new AST only
syserr_log_init.pl1	THVV		04/02/75	12	done



TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
vm.pl1	AB		03/15/75	17	done
create_vtoce.pl1	AB		04/04/75		done
delete_vtoce.pl1	AB		04/04/75		done
truncate_vtoce.pl1	AB		04/30/75	2	underway
activate.pl1	AB		04/30/75	4	AST, directory, VTOC
boundfault.pl1	AB		04/30/75	4	AST, dir, VTOC
deactivate.pl1	AB		04/30/75	4	
deactivate_segs.pl1	RGB		04/30/75	2	Bratt's version for KST stuff shd be ok
get_aste.pl1	AB		04/30/75	4	
search_ast.pl1	AB		04/04/75		done
makeunknown.pl1	RGB		04/30/75	1	RGB version shd work
plm.pl1	THVV		04/30/75	1	root pvtx to aste (dseg, pds)
quota.pl1	THVV		04/30/75	4	may be able to dummy until phase II

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-SIAIUS
quotaw.pl1	AB		04/30/75	4	
kst_entry_check.pl1	RGB		04/30/75	1	
set_ehs\$short	AB		04/11/75		done
get_pvtx.pl1	AB		04/30/75	2	
setfaults\$if_active	AB		04/30/75	1	
seg_fault.pl1	AB		04/30/75	2	
sum.pl1	AB		04/30/75	4	
updateb.pl1	AB		04/30/75	2	Becomes updatev in many cases
grab_aste.pl1	BSG, AB		04/30/75	3	Entire strategy must be revamped

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
acc_name.pl1	THVV		05/15/75	0	Recompile
access_mode.pl1	THVV		05/15/75	0	Recompile
acl.pl1	THVV		05/15/75	0	Recompile
acl_.pl1	THVV		05/15/75	0	Recompile
append.pl1	AB		05/15/75	4	New strategy. Call create_vtoce
asd_.pl1	THVV		05/15/75	0	minor change: call setfaults\$if_active
chname.pl1	THVV		05/15/75	0	Recompile
del_dir_tree.pl1			05/15/75	2	
delentry.pl1	AB		05/15/75	2	change to call delete_vtoce
dir_control_error.pl1	THVV		05/15/75	0	Recompile
ex_acl.pl1	THVV		05/15/75	0	Recompile
find_.pl1	THVV		05/15/75	0	Recompile
fs_get.pl1	THVV		05/15/75	4	Some entries use VTOC, some may not

PROJECT \_\_\_\_\_ Collection 2 \_\_\_\_\_ AREA \_\_\_\_\_ Directory Control \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
hash.pl1	THVV		05/15/75	0	Recompile
initiate.pl1	THVV		05/15/75	0	Recompile
kst_entry_check.pl1	THVV		05/15/75	0	Recompile
list_dir.pl1	THVV		05/15/75	0	Recompile
list_inacl_all.pl1	THVV		05/15/75	0	Recompile
lock.pl1	THVV		03/15/75	4	Dummy version for Stage 1 is done. Eventually new strategy
move_file_map.pl1			05/15/75	1	
ringbr_.pl1	THVV		05/15/75	0	Recompile
set.pl1	THVV		05/15/75	2	New directory, VT0C
status.pl1	THVV		05/15/75	3	New directory, VT0C
status_.pl1	THVV		05/15/75	3	New directory, VT0C
truncate.pl1	AB		05/15/75	4	new directory, VT0C, Interface to SC
verify_lock.pl1	THVV		05/15/75	1	easy

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PROJECT \_\_\_\_\_ Collection 2 \_\_\_\_\_ AREA \_\_\_\_\_ Device Control \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
assign_device.p11			04/30/75	2	

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PROJECT \_\_\_\_\_ Collection 2 \_\_\_\_\_ AREA \_\_\_\_\_ Integration \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
Integrate	BSG, THVV, AB	05/01/75	05/30/75		

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PROJECT \_\_\_\_\_ Post command level \_\_\_\_\_ AREA \_\_\_\_\_ BOS \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
if	THVV		06/27/75	1	FSDCT
save, sav_loop.incl, sav_util	THVV		06/27/75	3	FSDCT

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PROJECT \_\_\_\_\_ post command level \_\_\_\_\_ AREA \_\_\_\_\_ Directory Control \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-SIAIUS
dc_pack.pl1			06/27/75	13	Need new entry when VTOC used too
shutdown.pl1			06/27/75	13	
star_.pl1			06/27/75	12	New directory, VTOC



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PROJECT \_\_\_\_\_ post command level \_\_\_\_\_ AREA \_\_\_\_\_ Page Control \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
wired_shutdown.pl1	BSG		06/27/75	12	fsout needs definition
emergency_shutdown.alm	BSG		06/27/75	14	needs definition

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PROJECT \_\_\_\_\_ Post command level \_\_\_\_\_ AREA \_\_\_\_\_ Miscellaneous Tasks \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-SIAIUS
check_sst.pl1			06/27/75	1	recompile
copy_fdump.pl1	THVV		06/27/75	1	new pc%cleanup call
device_meters.pl1	NIM, THVV		06/27/75	2	redefine
disk_left_.pl1	THVV		06/27/75	2	redefine
dump_pdmap.pl1	BSG		06/27/75	2	Major recruiting
file_system_meters.pl1			06/27/75	0	redefine
meter_util_.pl1			06/27/75	0	Recompile
page_multilevel_meters.pl1	BSG		06/27/75	0	new meters for NPC
print_aste_ptp.pl1			06/27/75	1	size of aste

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PROJECT \_\_\_\_\_ Post command level \_\_\_\_\_ AREA \_\_\_\_\_ Integration \_\_\_\_\_

TASK DESCRIPTION	PERSONNEL	START	FINISH	M-D	CHANGES-STATUS
Integrate	BSG, THVV,	06/01/75	06/30/75		
	AB				

