## MULTICS TASK REPORT

To:

PDO & Multics Distributions

From:

Dennis Capps

Date:

January 7, 1974

Subject: Tape Mount Project Progress Report

But that I am forbid To tell the secrets of my prison-house, I could a tale unfold whose lightest word Would hallow up thy soul, freeze thy young blood, Make thy two eyes, like stars, start from their spheres, Thy knotted and combined locks to part And each particular hair to stand on end, Like quills upon the fretful porpentine: But this eternal blazon must not be To ears of flesh and blood. (1)

The first step in the installation of the tape mount package was completed with the installation of hardcore system 21-2. This included changes to tape\_, tdcm, and tape\_init. A week or two later tape\_ was pulled due to the discovery of gross errors a new module, tape\_mount\_label\_. The origins of this snafu to be found in the history of this ill-fated project, are to be found in the history of this ill-fated project, unwarranted trust of my predecessor, and a desire to be done as soon as possible.

Since then, Bill Silver, who was working on tape\_ anyway, rewritten tape\_mount\_label\_. In addition, the last vestiges of DIM-dependent code have been removed from the tape mount package and put into tape\_ where they belong (tape\_labeler\_).

A change in the communication protocol between the user process and the initializer ought to have gone smoothly. However, I spent a week tracing down a bug which turned out to be a typing error in the source of an installed hardcore gate. there was an error in the temporary tape\_labeler\_ that I made while waiting for Silver to complete his changes to tape\_. this was exacerbated by my relative inexperience using the development machine. All was not lost, however; I found and corrected some minor bugs along the way.

Six weeks ago I had a version that worked. Today I have a version that works (he said, crossing his fingers and hoping that his next development run would not founder on something that his ring 4 testing had not uncovered). With the addition of a few

<sup>(1)</sup> Shakespeare, W., Hamlet, Prince of Denmark

default and cleanup handlers it can be installed and used.

Several improvements remain before the project can be considered entirely finished:

1) A scheme is needed by which we can reduce the number of

non-zero-length vds.

2) Several sections would be more easily maintained and more installation flexible if made to depend on tables rather than on information coded into the programs.

3) A remount entry to facilitate multi-volume files.

4) Automatic assignment of generic tapes by symbolic name.

5) tape\_volume\_access\_ to use new acl primitives.

CHANGES-STATUS PAGE 1 Done M-M DATE\_Jan 7,74 FINISH 8/31/73 8/20/73 AREA START PERSONNE THVV THVV ည္ရ ၁၀ ည ၁၀ 20 ည 20 ၁၀ Tape Mount Package define access mseg\_access\_ Modify to only manipulate message Program to generate gummed labels tape Code to handle a tape which does tape\_path\_name\_ Revise to reflect current state Require authentication if label label checker not checked, label check if no and simplify calling sequence to tape\_mount\_, Parameter to inform whether to call new package tape opr , and tape master tape\_mount\_\$mount\_check Mount request state 5. attached not vet have a label tape\_volume\_access\_ codes and implement TASK DESCRIPTION Code to call ANSI tape\_ Final debugging tape\_mount\_util tape\_mount\_util tape\_mount\_uti authentication Modifications drive still segments Modify PROJECT ns t d GROUP

Done

9/11/73

9/10/73

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Grady enough info to find

tdcm security bug

Give

Awaits final Dev test CHANGES-STATUS PAGE\_\_2\_ Not needed Di tto Done Done Done Done Done Done Done Done Done M-M Jan 7,74 10/4/73 11/14/73|11/19/73 10/10/73|10/29/73 10/29/73|10/30/73| 10/29/73|10/31/73| 10/31/73 11/7/73 10/31/73 11/30/73 11/12/73|11/12/73|11/12/73 11/14/73|11/19/73 10/10/73 | 10/29/73 10/10/73 10/29/73 10/14/73 10/29/73 11/12/73|11/13/73 FINISH 9/25/73 10/9/73 DATE 11/27/73 10/2/73 10/4/73 AREA. STARI PERSONNEL DC ٩ ح DC, J THVV oa သူ od သူ OC ၁ oc 20 ၁၀ DC Tape Mount Package Reorganize TCS in conjunction with Move parser for qualifiers to ring 4 checker for DIM tape\_registration\_print (so owner can modify registration) that mount message is constructed can pass information to the DIM Produce and incorporate include Change communication protocol Clerical work of hardcore tape\_registration\_change Settle on qualifiers & vds TASK DESCRIPTION so label tcs Code for above tape\_register vds\_manager\_ Reorganize submission on op side Mechanism Testing above files PROJECT GROUP.

GROUPTape Mount Package	3.e	DATE	DATEJan 7,74	PAGE_3/3
PROJECT		AREA		
TASK DESCRIPTION	PERSONNEL	START	FINISH M-W	CHANGES-STATUS
not_yet_labeled to make sense when reading	DC			Done
Mount package to issue set density command	DC			
Cleanup handler in tape DIMs	DC			
Default handlers for mount, mount_check, dismount, vds manager, tape volume access	DC			
Make sure new version of nstd_ has   latest calling sequences	DC			
Registration (exec_com)	DC, RAR,   Tape   librarian			

5	GROUPTape_mount_package	98	DATE_	DATEJan 7,714	PAGE_1_/1
ď	PROJECTLater		AREA		
	TASK DESCRIPTION tape_path_name_tape_mount_r4util_\$parse	PERSONNEL   DC 	START	FINISH M-W	CHANGES-STATUS   Started
_'	Make table driven tape_labeler_	DC, Silver			Silver is doing this
	tape_mount_\$remount	DC I			Written
_'	Automatic assignment of generic tapes by symbolic name	DC			
	Scheme to minimize the number of non-zero-length vds	DC			
	Put ANSI label in multics label record				
	tape_volume_access_ to use new ACL primitives				

GROUPTape Mount Package_	95	DATE	DATEJan 7,74	- PAGE_1/1
PROJECTDocumentation_		AREA		
TASK DESCRIPTION Hardcore modules	PERSONNEL DC	START	FINISH M-W 9/23/73	CHANGES-STATUS   Done
TOS Document for users explaining new tape mounting protocol	DC			Convert msb-69?
MOSN for operations explaining new tape mounting protocol	DC			
SPS	DC	11/21/73		Well under way
MPM	DC	11/21/73		
progress reports	DC	ongoing ongoing	task task	
Clerical work of online submission	DC			

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