

To: Development Operations Staff

From: Steve Webber

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Date: Performance Runs

### Handling of User-submitted performance Runs

The standard development hierarchy contains the necessary files to run performance tests from the Metering.SysDaemon process. This document describes exactly how to run such tests.

The answering service has several exec\_com's (invoked by typing "x " followed by the exec\_com name) which make it easier to run the tests. These should be used unless some problems arise which can not easily be analyzed. The following scripts give both the full text, without use of exec\_com's, as well as the more convenient abbreviated scripts.

Performance runs are requested on a special form, a copy of which is attached. In general, a user will request that a particular tape be bootloaded. Frequently a particular hardware configuration will be requested. Occasionally, supplementary meters will be requested. These should be fully explained on the form.

The full script is as follows:

CONFIG P

RESTOR The user will specify which hierarchy to restor. If the user does not specify which, the standard 2-disk hierarchy should be used.

LD355

BOOT The user will specify which tape to boot. If the user does not specify a tape, the current standard bootload tape should be used.

When Multics reaches command level, any user specified reload tapes should be reloaded. This is done by typing "reload" and answering the ensuing questions. After any such tapes have been reloaded the following should be typed:

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Multics Project internal working documentation. Not to be reproduced or distributed outside the Multics Project.

multics

go

word meter "Special session for <requestor's name>"

mc

At this time the hardwired TermiNet (tty000) should be enabled and the following typed into the TermiNet:

dial system

Go to the operator's console and type:

x devtty

This should enable the TermiNet so that all further input be typed into it. Hence, from the TermiNet type:

login Metering SysDaemon mt  
r mt shortrun

When the Metering process has queued all 20 absentee jobs the following should be typed:

abs start 20

The metering test should begin, run, and complete by printing out a page or so of meters. The following should then be typed:

login IO SysDaemon cord  
login IO SysDaemon prt  
r cord coordinator  
r prt driver  
r prt prt

This starts up the IO Daemon. To print the absout files of the metering run the following should be typed:

r mt dpabs

When all 20 absout files have been printed the daemons should be logged out:

logout IO SysDaemon  
logout Metering SysDaemon  
shutdown

All output should then be collected together and returned to the submitter.

Notes

If any of the absentee jobs logout abnormally (recognized by a "TERM" message in the logout notice) the entire run should be aborted and restarted if time permits. This will happen if one of the absentee jobs gets a hardware error such as a parity error or an op-not-complete.

Any input requests preceded by "r " or "reply " should not be issued until the corresponding arrow (--> mt. e.g.) for the given process has been typed out.

If a user requests special meters to be printed, it should usually be done from the Metering SysDaemon process and always before it is logged out.

If there is any trouble using the TermiNet console, omit the x devtty command and do all work at the operator's console.

An abbreviated script using the exec\_com's follows:

```
CONFIG P
RESTOR
LD355
BOOT
```

<optional reload requested by user>

```
multics
go
mc
```

<Type "dial system" into TermiNet>

```
x devtty
```

<Go to TermiNet for rest of run>

```
x devmeter "Special session for <requestor's name>"
```

<The test should run and complete.>

```
x devio
x devoutput
x devlogout
shutdown
```

REQUEST FOR PERFORMANCE RUN

User name \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ Date run \_\_\_\_\_

Boot tape \_\_\_\_\_ Time run \_\_\_\_\_

Reload tapes(s) \_\_\_\_\_

Estimated run time \_\_\_\_\_

Configuration

MEM \_\_\_\_\_

BULK \_\_\_\_\_

OTHER \_\_\_\_\_

Restor tape(s) \_\_\_\_\_

Config Deck Changes

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Special Instructions

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Operator Comments

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