

Subject: MCR-10040, Fix >t>admin.ec to not asdump on “x repair” with no args

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Introduction

>t>admin.ec is the exec_com installed into >sc1 during a cold boot and which handles the “x” operator commands. An example of such a command is “x repair”. This MCR provides a trivial fix to a problem, described in ticket <http://multics-trac.swenson.org/ticket/65>, where if the operator enters the command “x repair” with no arguments, an answering service dump (asdump) is generated.

Problem

If the “x repair” command is invoked with no arguments, an answering service dump is generated. This is due to the fact the exec_com invokes the active function “equal” on the second argument, which, if not present, will cause this active function to signal an error. Here are the first few lines of the “repair” entry point in admin.ec:

```
&label repair
&command_line off
&if [equal &r2 stop] &then &goto repair.stop
&if [or [exists argument &r5] [not [exists argument &r4]]] &then &goto
    repair.explsavctl
```

While there is a check for the existence of arguments 4 and 5, there is no check for the existence of argument 2.

Proposed Changes

The fix is trivial – all that is necessary is to add this statement:

```
&if [not [exists argument &r2]] &then &goto repair.explsavctl
```

before the line:

```
&if [equal &r2 stop] &then &goto repair.stop
```

Testing of the Change

This fix has been in place for some time on GHM. Testing it is as simple as typing “x repair” on the operator console. The desired result is that the usage is displayed. It looks like this:

```
M-> x repair
Usage: x repair salv/quota/salvquota dirname nprocs
Or: x repair stop, to log out processes
Ready
M->
```

Bug Reference

- Reference URL of Multics Change Ticket: <http://multics-trac.swenson.org/ticket/65>

Documentation

There is no need to document this change.

Version History

Date	Revision	Author	Comment
2018-01-12	1.0	Eric Swenson	Initial version of MCR.