Paging Space Problems with Mksysb Restoration

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Note: The information in this document has **not** been verified for AIX 4.1.

About this Document

This document describes how to decrease the amount of paging space that is created during a mksysb restoration. You may wish to use this procedure if there is not enough space on the system for the paging space that mksysb is trying to create.

This document applies to all versions of AIX 3.2.

Overview

This document describes two methods for changing the amount of paging space that is created. The first involves changing the bosrvg script, which mksysb uses to create the rootvg logical volume. The second involves temporarily removing memory cards from the system.

For more information on paging space, order fax 1075 from 1-800-IBM-4FAX (outside the U.S., call 415-855-4FAX from a fax machine phone).

Method 1

1. On a system other than the one being restored but at the **same** level as the one being restored, do the following:

   a. Enter the following to save the original bosrvg script so that it can be restored after we temporarily edit it:

```
cp  /usr/lpp/bosinst/bosrvg  /usr/lpp/bosinst/bosrvg.original
```

b. Change the following line (approximately line 108) in the bosrvg script:

```
mklv -y hd6$hdnum -t paging -a m -b n $VGNAME $pagecount
$pagedisk || berror -f "mklv" -e 0 -a 2 -r $?
```

to

```
mklv -y hd6 -t paging -a m -b n rootvg <# of partitions>
```

where "<# of partitions>" is the number of partitions that you want the paging space to have.

For example:

```
mklv -y hd6 -t paging -a m -b n rootvg 8
```

Note: Paging space must be at least 16 MB, so the number of partitions must be at least four.

c. Make bosboot diskettes from the system.

2. On the system that you are restoring:

   a. Boot the system with the bosboot diskettes made on the other system.

   b. Insert the mksysb tape and select the "Install from smit backup" option.

3. When the mksysb restoration is complete, copy /usr/lpp/bosinst/bosrvg.original from the machine on which the bosboot diskettes were made to the machine that was restored. You can do this by first copying the file to a diskette and then copying it from the diskette to the restored system.

4. Then on **both** systems, restore the original bosrvg file with:

```
cp /usr/lpp/bosinst/bosrvg.original /usr/lpp/bosinst/bosrvg
```

Method 2

Another option for reducing the paging space created is to temporarily remove some of the memory cards in the system. This will cause mksysb to calculate a smaller amount of paging space because it will detect less memory in the system. Put the memory cards back in the system after the mksysb install is complete.

Reader's Comments

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