Name

cfg - Configures /xenix

Syntax

cfg [-n xenix] [Tables] [Misc]

Tables may be '-d' or one or more of the following:

buffers=n inodes=n files=n locks=n procs=n clists=n

n above may be 'a' or an integer greater than 0.

Misc may be one or more of the following:

[maxprocs=p] [maxmem=m] [nodename=name]
[swapdev=a | swapdev=mm,nn swplo=dd nswap=nn]

Description
    Cfg allows you to configure the size of various system tables and
    parameters. By default, the size of these tables is determined
    by how much memory is installed in your machine:

Mem Size	Buffers	Inodes	Files	Locks	Procs	Clists
512k	25k	100	100	200	60	200
1.0 meg	50k	100	100	200	60	200
1.5 meg	100k	120	120	240	70	200
2.0 meg	150k	140	140	280	80	200
2.5 meg	150k	160	160	320	90	200
3.0 meg	150k	200	200	400	100	200

    Note: It is not currently possible to install more than
           1 megabyte of memory.

Cfg allows you to select the size of any of these tables.
For example:

    cfg buffers=200

sets the number of system buffers to 200. Cfg will respond:

    /xenix is now configured as follows:
        Buffers   200
        Inodes   AutoConfig
        Files   AutoConfig
        Locks   AutoConfig
        Procs   AutoConfig
        Clists   AutoConfig
        Maxprocs   15
        Maxmem   256k
        Nodename   ""
        Swapdev   AutoConfig

This indicates that /xenix will reserve 200 buffers when it boots next.
Because each system buffer has 512 bytes, the kernel will reserve 100k of
memory for system buffer use. To set /xenix back to automatic buffering,
type:

    cfg buffers=a

Cfg will respond:

    /xenix is now configured as follows:
        Buffers   AutoConfig
        Inodes   AutoConfig
        Files   AutoConfig

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Locks       AutoConfig
Procs       AutoConfig
Clists      AutoConfig
Maxprocs           15
Maxmem           256k
Nodename          ""
Swapdev     AutoConfig
```

This indicates that /xenix will automatically select the number of
buffers based on memory size.

The 'nodename' option allows you to change the name of your system
that is returned by the 'uname' system call [see uname(S)].

The '-d' option resets all options except 'nodename' and 'swapdev' to
their default values, which are shown in the example above.

As with the configuration disk in earlier versions of 68000/XENIX, it is
assumed that the system administrator has the technical understanding of
the relationships between the various parameters and their effects on
system performance. Some incorrect configurations can destroy data.

Cfg may only be run by the superuser.

Diagnostics
        cfg: You must be superuser to run this program
                The user was not logged in as root, nor was the su
                command used to change to root.

        cfg: No namelist
                The program was unable to find the required symbols
                in /xenix.

        cfg: cfg not supported in that xenix
                The user tried to run cfg on an older version of xenix.

        cfg: Can't open xenix
                The program was unable to open the file /xenix.

        cfg: Can't read xenix
                The program was unable to read the file /xenix.

        cfg: Can't write xenix
                The program was unable to write the new configuration.

        cfg: Not enough data in /xenix
                The file /xenix did not match its namelist. This may
                indicate a corrupted /xenix file.

        cfg: Can't seek for read
                The program can't position to read the old
                configuration.

        cfg: Can't seek for write
                The program can't reposition to write the new
                configuration.

        cfg: Please type a number of items from min to max
                The user specified a number of items less than min or
                greater than max.

        cfg: Please type a number for item from min to max
                The user specified a number for item less than min or
                greater than max.

        cfg: Missing major number for 'swapdev'
        cfg: Missing minor number for 'swapdev'
                The user gave an incorrect 'swapdev' specification.

cfg: You must specify swapdev, swplo, and nswap together
     The user gave one or more of swapdev, swplo, and nswap without
     specifying all of them.

cfg: Too many characters in nodename
     The user specified a nodename which was greater than
     8 characters long.

cfg: Illegal character in nodename
     The user specified a nodename which had a character other than
     A-Z, a-z, 0-9, '-', and '_' in it.

cfg: Unknown option
     The user gave cfg an unknown option.

cfg: Missing argument for -n
     The user gave the '-n' option without another argument.

cfg: Too many item change specifications
     The user specified more than one of 'a' or a number of item.

cfg: You must specify "-d" alone.
     The user gave the '-d' option with another change
     request.

See Also
     configuration(M)