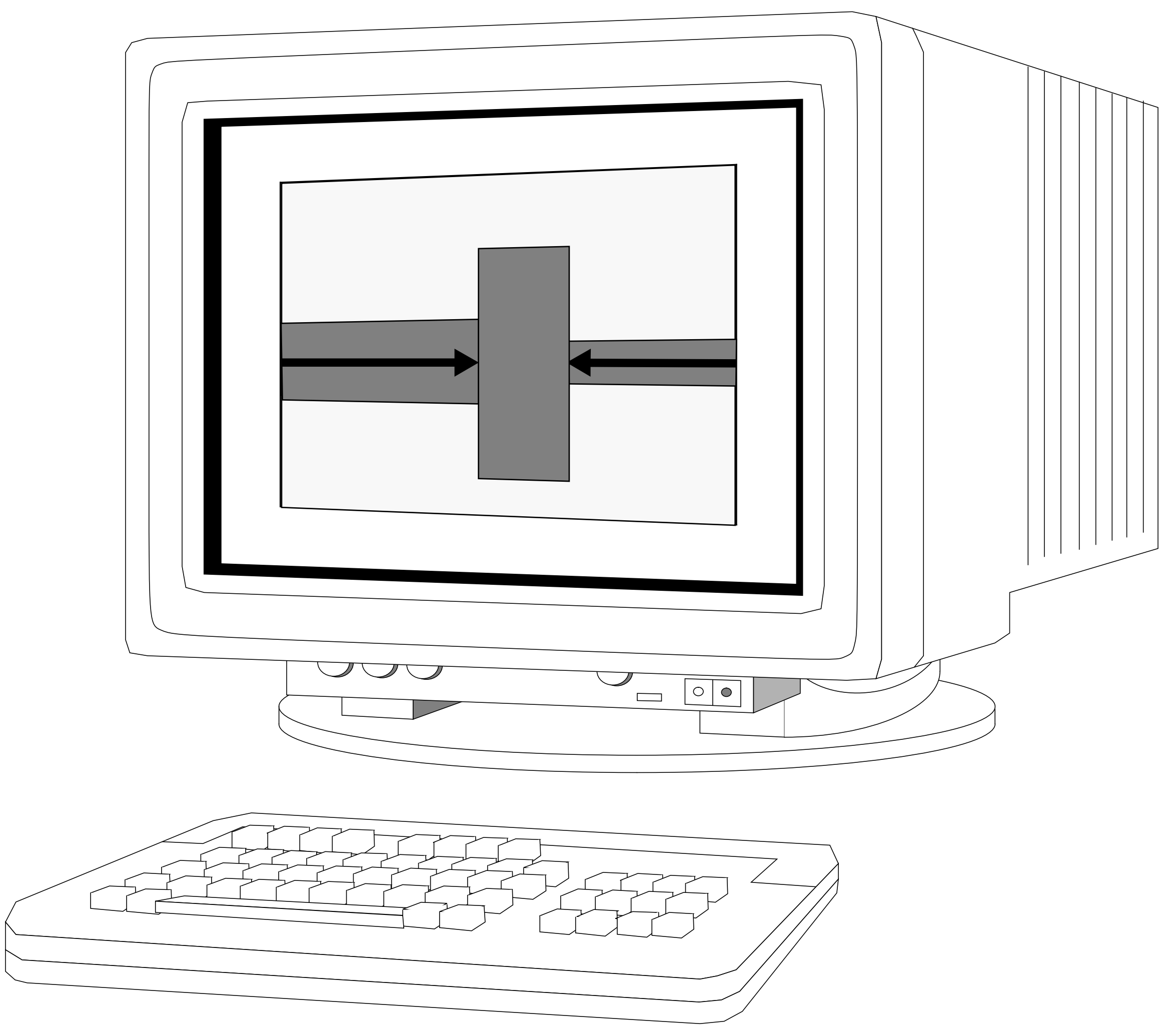
Utilities Manual



Utilities Manual

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Chapter 1 The *Checkmem* Utility

Checkmem is a troubleshooting tool which checks to see how much virtual memory is available for use by ***em*** or ***patgen*** on your system. Available memory can be decreased by the window system, extra open windows, other application software, and other users. To check how much memory is actually available, type "checkmem" and press the *Return* key. The amount of available memory, to the nearest megabyte, is displayed.

♦ Options

Checkmem uses the following command line syntax:

checkmem ***options***

where *options* should be replaced with one or more of the options listed below.

The following is a list of options available with ***checkmem.***

-h Prints out a help message listing the available options.

-V Prints the version number of the ***checkmem*** program.

-w Allocates memory, then waits indefinitely.

-p Prints message as each memory unit is allocated.

♦ Technical Information

Checkmem uses the Unix system call malloc(3) to dynamically allocate memory. ***Checkmem*** continues to allocate memory in blocks of one (1) megabyte until malloc fails.

There are several circumstances in Unix systems where the amount of memory available to ***em*** and ***patgen*** is less than the actual memory available.

- The maximum amount of memory for a single process can be limited by the operating system.
- The user’s memory is limited (typically done using the ulimit or limit command on some systems).
- The user’s login has limited the available memory (typically done by the system administrator).
- If the paging space (disk space being used as memory) is smaller than the actual memory, on some Unix systems, only the amount of paging space can be allocated. For example, on these systems, if you had 64 MB of real memory with 32 MB of paging space, only 32 MB of virtual memory would be available to ***em*** or ***patgen***.
- For MS-DOS systems, the memory available to your window may be limited or the memory may not be available due to memory management.

To determine which circumstance is limiting the available memory, use checkmem with the -w option. After opening a second window, type in the first window:

checkmem -w

The -w option causes ***checkmem*** to allocate the maximum amount of memory, then wait indefinitely. After typing the command, change to the second window and type:

checkmem

If the second copy of ***checkmem*** reports more than one megabyte of memory, then something on the system is limiting the available memory. Contact your system administrator to remove the limitation. Be sure to terminate the first copy of ***checkmem*** since none of the memory allocated will be available to any other programs until you terminate ***checkmem*** (typically done by typing Control-C (^C) in the window).

Chapter 2 The *Copyex* Utility

♦ Introduction

The ***copyex*** command allows you to copy examples from the Sonnet example directory to your present directory. This allows new users to easily get their own private copies of the example files.

♦ Using the Example Files

In the user manuals, we refer to several example files which are supplied with Sonnet's Software. To use these files, you must copy them into your directory. ***Copyex*** has been provided to copy the example files into your directory. To copy an example file, type in "copyex" followed by the file name.

For example, to copy the example file "steps.geo", type:

copyex steps.geo

If a file in your directory has the same name, ***copyex*** overwrites it with the original example file. This feature is useful if you modify an example file and want to restore the file to its original version.

To copy more than one file, list the file names after “copyex”. Separate the names with at least one space between each name. For example, to copy the files “ctl.an” and “steps.geo” from the Sonnet example directory, type:

copyex ctl.an steps.geo

♦ Listing the Available Files

On Unix systems, you may obtain a listing of the available files in the Sonnet example directory by typing:

copyex

When ***copyex*** is run without any files specified, ***copyex*** lists the available files in the example directory. When specifying files, do not use any wildcard, i.e., ctl.* should not be used.

Chapter 3 The *Sonnetsn* Utility

The ***sonnetsn*** command prints out information about your Sonnet Software license. To use the command, simply type:

sonnetsn

This command prints out your version number, license ID, and your serial number.