



Tech Info Library

MacX1.2: Tuning BackInStore

Revised: 1/15/93
Security: Everyone

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Article Created: 23 December 1992

TOPIC -----

We're running MacX 1.2 and wonder what you advise as far as tuning BackInStore.

DISCUSSION -----

When a server maintains the contents of a window, the pixels saved off screen are what is known as Backing Store. BackInStore is an industry-standard way of handling virtual memory functions from within an X server application. It is a new feature of MacX 1.2.

If the Backing-stores attribute is set for a server, it indicates that the server supports backing stores for this screen, although it may be limited to the number of windows it can support at one time, due to storage limitations. Also, the Backing Store can have different attributes set:

- A Backing Store of WhenMapped advises the server that maintaining contents of obscured regions when the window is mapped would be beneficial.
- A Backing Store of Always advises the server that maintaining contents even when the window is unmapped would be beneficial.
- A Backing Store of NotUseful advises the server that maintaining contents is unnecessary, although a server might still choose to maintain contents, while the window is mapped.

A window is said to be mapped, if a map call has been performed on it. Unmapped Windows and their inferiors are never viewable or visible.

Tuning generally refers to metrics applied to sizing the BackInStore file

and is dependent on how memory is used by the MacX application, as in caching of information and swapping out the memory used for displaying idle or non-active processes.

In the case of the MacX server, the only tuning you can do is to allocate enough memory for the MacX application. Because the use of Backing Store increases the amount of memory used by MacX, you could save some memory going to the "Display Preferences" dialog and selecting the option for "Requesting Clients" instead of "All Clients". If the "Requesting Clients" button is selected, MacX provides Backing Store only to the clients that explicitly request it.

For the best performance of MacX, make sure that the screen depth of the Macintosh is set to either 1 or 8 bits. If you choose any of the other screen depths, then MacX slows significantly.

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Tech Info Library Article Number:11098