
Setting, Disabling, and Reading the Wakeup Timer

When the Macintosh Portable computer is in the sleep state, the **Power Manager** updates the real-time clock and compares it to the wakeup timer once each second. When the real-time clock and the wakeup timer have the same setting, the power management circuits return the Macintosh Portable to the operating state. The **Power Manager** provides functions that set the wakeup timer, disable the wakeup timer, and read the wakeup timer's current setting.

Use the **SetWUTime** function to set the wakeup timer. You pass one parameter to the **SetWUTime** function: an unsigned long word specifying the number of seconds since midnight, January 1, 1904. Setting the wakeup timer automatically enables it.

To disable the wakeup timer, you can set the wakeup timer to any time earlier than the current setting of the real-time clock (that is, to some time in the past), or you can use the **DisableWUTime** function. To reenabling the wakeup timer, you must use the **SetWUTime** function to set the timer to a new time in the future.

To get the current setting of the wakeup timer, use the **GetWUTime** function. This function returns two parameters: the time to which the wakeup timer is set (in seconds since midnight, January 1, 1904) and a flag indicating whether the wakeup timer is enabled.

If the Macintosh Portable is already in the operating state when the real-time clock reaches the setting in the wakeup timer, nothing happens. The power management circuits do not return the Macintosh Portable to the operating state while battery voltage is low, even if the wakeup timer and real-time clock settings coincide.