

Release Notes Hyperkernel 5.7.1

Hyperkernel v5.7.1

01/09/2007

The Hyperkernel product is now owned by Nematron's partner ArcSystems Ltd. Any remaining references to Nematron should be interpreted as to mean ArcSystems Ltd. Nematron continues to provide 1st level technical support for Hyperkernel.

Hyperkernel v5.7.1 has been developed and tested for use on the following Windows Operating Systems and Hardware Abstraction layers (HAL):

- * Windows NT4 Service Pack 6
Microsoft PC Compatible Eisa/Isa HAL only
- * Windows 2000 Professional Service Pack 4
Standard PC Hal
Advanced Configuration and Power Interface HAL (ACPI-PC)
- * Windows XP Professional Service Pack 2
Standard PC Hal
Advanced Configuration and Power Interface HAL (ACPI-PC)

NOTE:

There is an exception to the hal support on windows 2000/xp if TCP/IP is enabled.
In this case only a standard PC hal is supported.

The following HAL types are NOT compatible with Hyperkernel.

- ACPI Uniprocessor PC
- ACPI Multiprocessor PC
- MPS Multiprocessor PC
- MPS Uniprocessor PC

Other third party customized HALs that may be installed by certain PC manufacturers are also not generally compatible.

PCs configured as above need to be reconfigured as ACPI-PC or Standard PC.

Issues with Pentium 4 processors and windows XP:

Hyperthreading:

Hyperkernel v5.7.1 does not support Hyperthreading. If hyperthreading is supported make sure it is disabled in the BIOS.

Data Execution Prevention (DEP):

Hyperkernel may not start on Pentium 4 systems equipped with DEP. If Hardware DEP is supported, if possible, disable this feature in the BIOS settings. If DEP cannot be disabled in the BIOS it may be necessary to add a /NoExecute=AlwaysOff switch to the windows boot.ini file to allow Hyperkernel to

ReadMeHK571.txt

run.

Further information on DEP and the /NoExecute switch can be found in the following Microsoft Technet reference:

<http://www.microsoft.com/technet/prodtechnol/winxpro/maintain/sp2mempr.msp>

Other known Issues:

Sample program #4 uses IRQ11:

HkSample4.exe uses IRQ11 to demonstrate interrupt handing in Hyperkernel. Running this program requires that IRQ11 is not being used by the operating system. Make sure that IRQ11 is available before running hkSample4.exe or a pc "lock up" may occur. On development installations the source code for hkSample4.exe can be changed to specify an IRQ that is not in use.

Slow file browsing in windows explorer:

On some platforms users may experience a delay when browsing files using windows Explorer while Hyperkernel is running. As a work around, it is suggested that shortcuts be used to access commonly used files.