Subject: Anybody knows how to get number of CPU cores?
Posted by mirek on Wed, 01 Aug 2007 08:54:36 GMT

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In Win32, Win64 and Linux/POSIX...

I have seen examples how to find a part of the information on one of system, but I would need implemenation for all (or most) platforms we support....

Subject: Re: Anybody knows how to get number of CPU cores?
Posted by unodgs on Wed, 01 Aug 2007 09:54:31 GMT

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luzr wrote on Wed, 01 August 2007 04:54In Win32, Win64 and Linux/POSIX...

I have seen examples how to find a part of the information on one of system, but I would need implemenation for all (or most) platforms we support....
Have you seen this: ?
 http://www3.intel.com/cd/ids/developer/asmo-na/eng/275339.ht m?cid=sw:multicore005

There is a CPUCOUNT.CPP which seemms to be able to detect how many cores a cpu has (see int MaxCorePerPhysicalProc(void))

Subject: Re: Anybody knows how to get number of CPU cores?
Posted by mirek on Wed, 01 Aug 2007 13:39:54 GMT

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Thanks, it provided really useful hints:

For Win32, it seems like we can use GetProcessAffinityMask(GetCurrentProcess(), &pa, &sa); and count the number of non-zero bits in sa.

For Linux, it is simply sysconf(_SC_NPROCESSORS_CONF); (or perhaps _SC_NPROCESSORS_ONLN).

BSD, MacOSX, anybody?

Mirek

Subject: Re: Anybody knows how to get number of CPU cores?
Posted by mirek on Wed, 01 Aug 2007 13:43:46 GMT

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Actually, it seems that there is

int get_nprocs (void)

in GNUC libc - nice

Mirek