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Jarek > Use 4GB+ of your RAM with 32-bit Windows



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SOFT PMING

I have this old Win7 32-bit laptop with 4 GB of RAM, but it was only able to use about 2.9 GB, the rest was "reserved for hardware". Recently I came across an interesting article by Raymond.CC "Make Windows 7, 8 and Vista 32-bit (x86) Support More Than 4GB Memory" and PatchPae2 by Wen Jia Liu aka wj32, which should enable PAE up to 128 GB for all current 32-bit Windows versions.

However, the patch of my current Windows 7 SP1 winload.exe version 6.1.7601.23569 failed, so I fixed it.

The result: PatchPae2.exe
Source and install instructions

I looked into wj32's code and disassembled my winload.exe . Apparently it has changed in revision 23569. The original patch was for ImgpLoadPEImage but I decided it would be more robust to patch the end of ImgpValidateImageHash . The offsets may change, but it is probably easier to maintain, as the error code C0000428h should stay constant.

.text:004295F7 loc_4295F7:
.text:004295F7 C7 44 24 18 28 04 00 C0
.text:004295F7 mov [esp+70h+var_58],
.text:004295FF

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