

CAPE-OPEN Update in PRO/II v10.0

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Agenda

Support for X64 in PRO/II v10.0

Support for X64 PMC in PRO/II X64

Support for X86 PMC in PRO/II X64

TLB / PIA installers

CAPE-OPEN Update in PRO/II v10.0

Support for X64 in PRO/II v10.0

- From version 10.0 onwards, PRO/II supports both 32 bit (X86) and 64 bit (X64) configurations.
- Support for CAPE-OPEN Unit and Thermodynamic Socket Interfaces in PRO/II X64
 - Support for X64 PMC in PRO/II X64
 - Support for X86 PMC in PRO/II X64

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Support for X64 CAPE-OPEN PMC in PRO/II X64

- **Thermodynamics:**
 - Spec v1.0 and v1.1 are supported (example: COCO TEA)
- **Unit Operations:**
 - Spec v1.0 is supported (example: COUSCOUS units)
 - Spec v0.9.3 is NOT supported from PRO/II v10.0 (X86 and X64) onwards
- **Performance may be improved as both PMC and PME are X64 and they reside in the same process.**

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Support for X86 CAPE-OPEN PMC in PRO/II X64

- **Thermodynamics:**
 - Spec v1.0 and v1.1 are supported (example: VB6 Ideal Property Package Manager)
- **Unit Operations:**
 - Spec v1.0 is supported (example: PSE Mixer-Splitter)
 - Spec v0.9.3 is NOT supported from PRO/II v10.0 (X86 and X64) onwards
- **X64 PME should create a X86 process to work with X86 PMC.**

(contd...)

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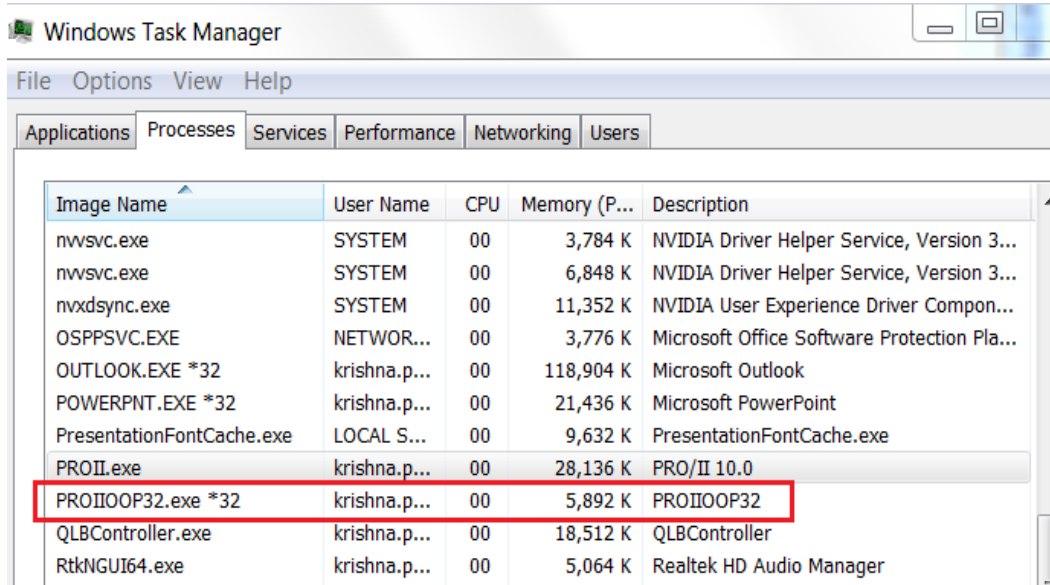
Support for X86 CAPE-OPEN PMC in PRO/II X64

- Performance may be an issue as PMC and PME are not residing in the same process but on different processes.
 - If PMC is available only in X86 (not available in X64) and performance is an issue with PRO/II X64, the alternative solution is to use PRO/II X86.
 - PRO/II X64 creates a separate process PROIILOOP32.exe while working with X86 PMC processes.
- (contd...)

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Support for X86 CAPE-OPEN PMC in PRO/II X64

- PROIIOOP32.exe closes when PRO/II (PROII.exe) is closed.



Windows Task Manager

File Options View Help

Applications Processes Services Performance Networking Users

Image Name	User Name	CPU	Memory (P...	Description
nwsvcs.exe	SYSTEM	00	3,784 K	NVIDIA Driver Helper Service, Version 3...
nwsvcs.exe	SYSTEM	00	6,848 K	NVIDIA Driver Helper Service, Version 3...
nvxdsync.exe	SYSTEM	00	11,352 K	NVIDIA User Experience Driver Compon...
OSPPSVC.EXE	NETWOR...	00	3,776 K	Microsoft Office Software Protection Pla...
OUTLOOK.EXE *32	krishna.p...	00	118,904 K	Microsoft Outlook
POWERPNT.EXE *32	krishna.p...	00	21,436 K	Microsoft PowerPoint
PresentationFontCache.exe	LOCAL S...	00	9,632 K	PresentationFontCache.exe
PROII.exe	krishna.p...	00	28,136 K	PRO/II 10.0
PROIIOOP32.exe *32	krishna.p...	00	5,892 K	PROIIOOP32
QLBController.exe	krishna.p...	00	18,512 K	QLBController
RtkNGUI64.exe	krishna.p...	00	5,064 K	Realtek HD Audio Manager

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CAPE-OPEN Type Libraries/ Primary Interop Assemblies installers

- PRO/II v10.0 was released with TLB/PIA installer v2.0 (provided by CO-LaN) integrated with it.
- PRO/II v10.0 uses both X64 and X86 MSI installers and installs them silently.
- MSI installers are configured for a per machine install consistent with the PRO/II installer.
- The benefit is PRO/II is using the official Type Libraries and PIAs provided by CO-LaN and installing them using the CO-LaN installer which ensures they are correctly shared

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Q &A

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