System Information Tools and Performance Monitors

Contents

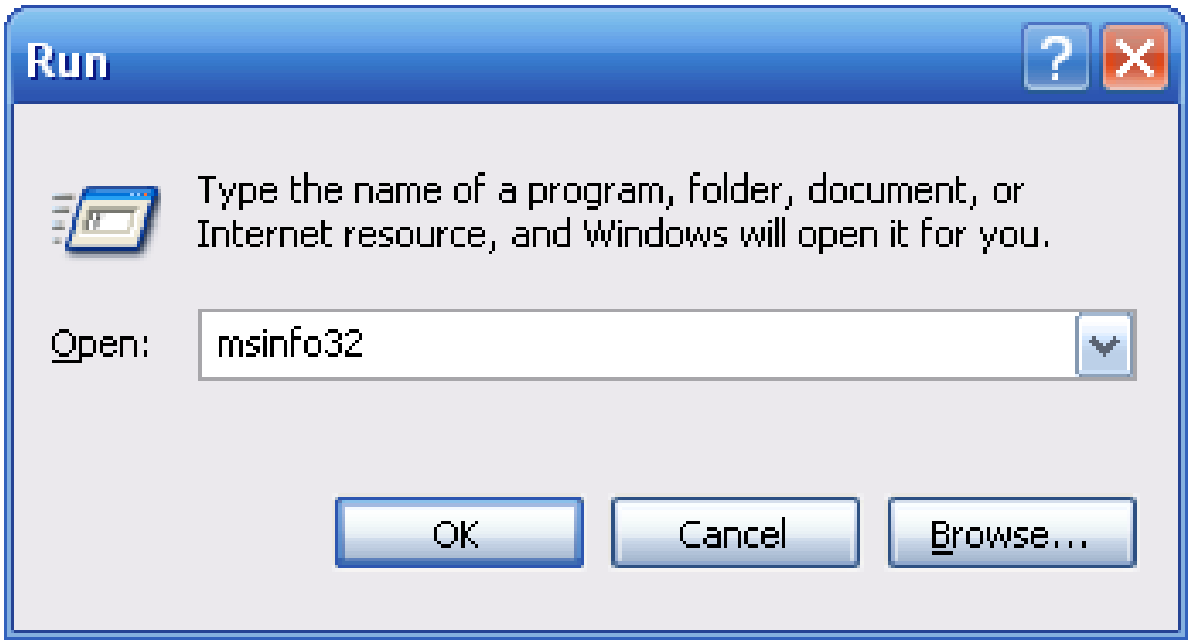
- Windows XP system information
- Windows 7 system information
- CPU-Z
- Task manager
- Windows XP performance monitor
- Windows 7 performance monitor
- Hexagora performance monitor

Basic system tasks

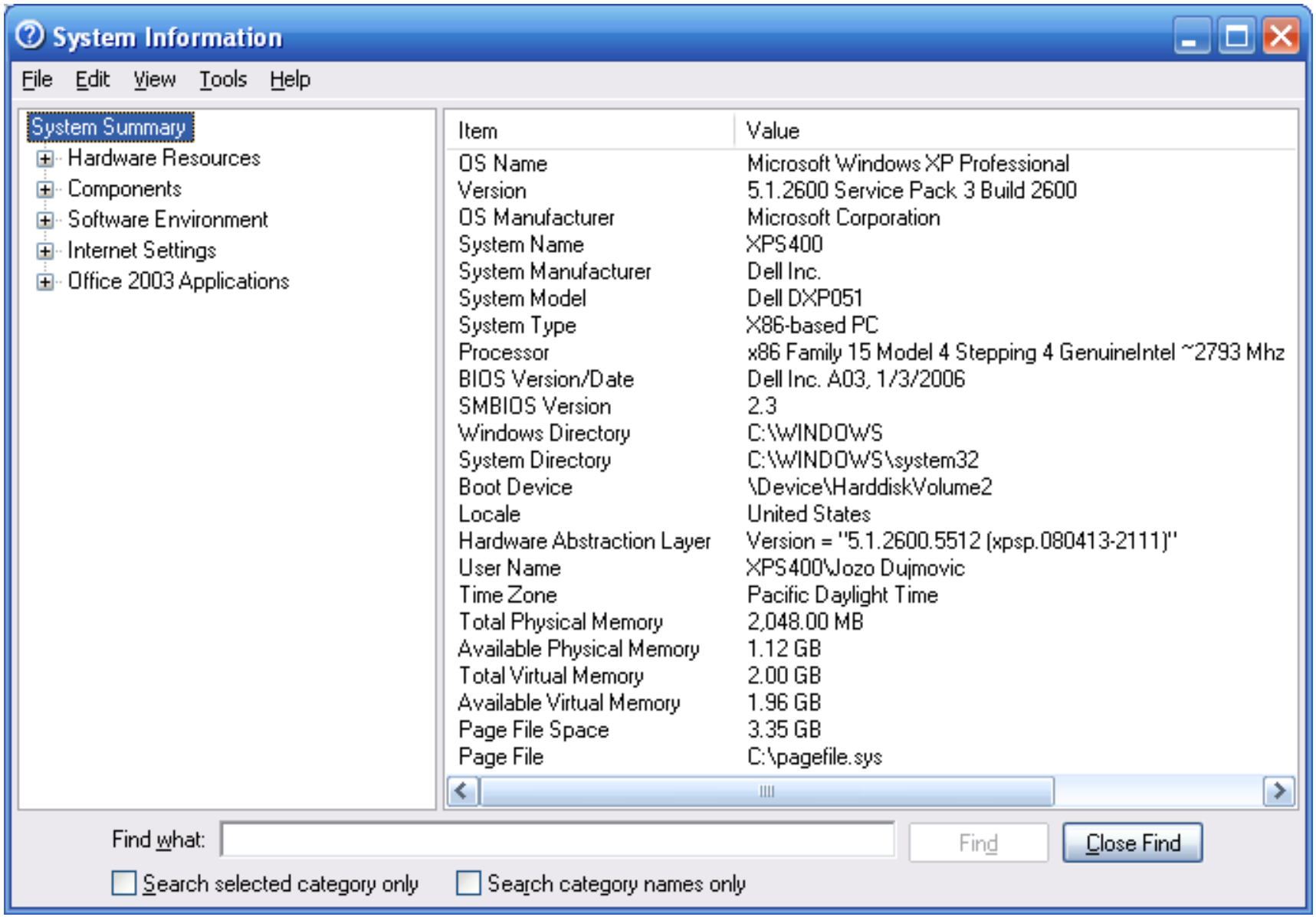
- System information: information about all hardware and software components of a computer system and their performance indicators
- System monitoring: dynamic measurement, monitoring and graphic presentation of the utilization of all computer resources during the execution of selected workload

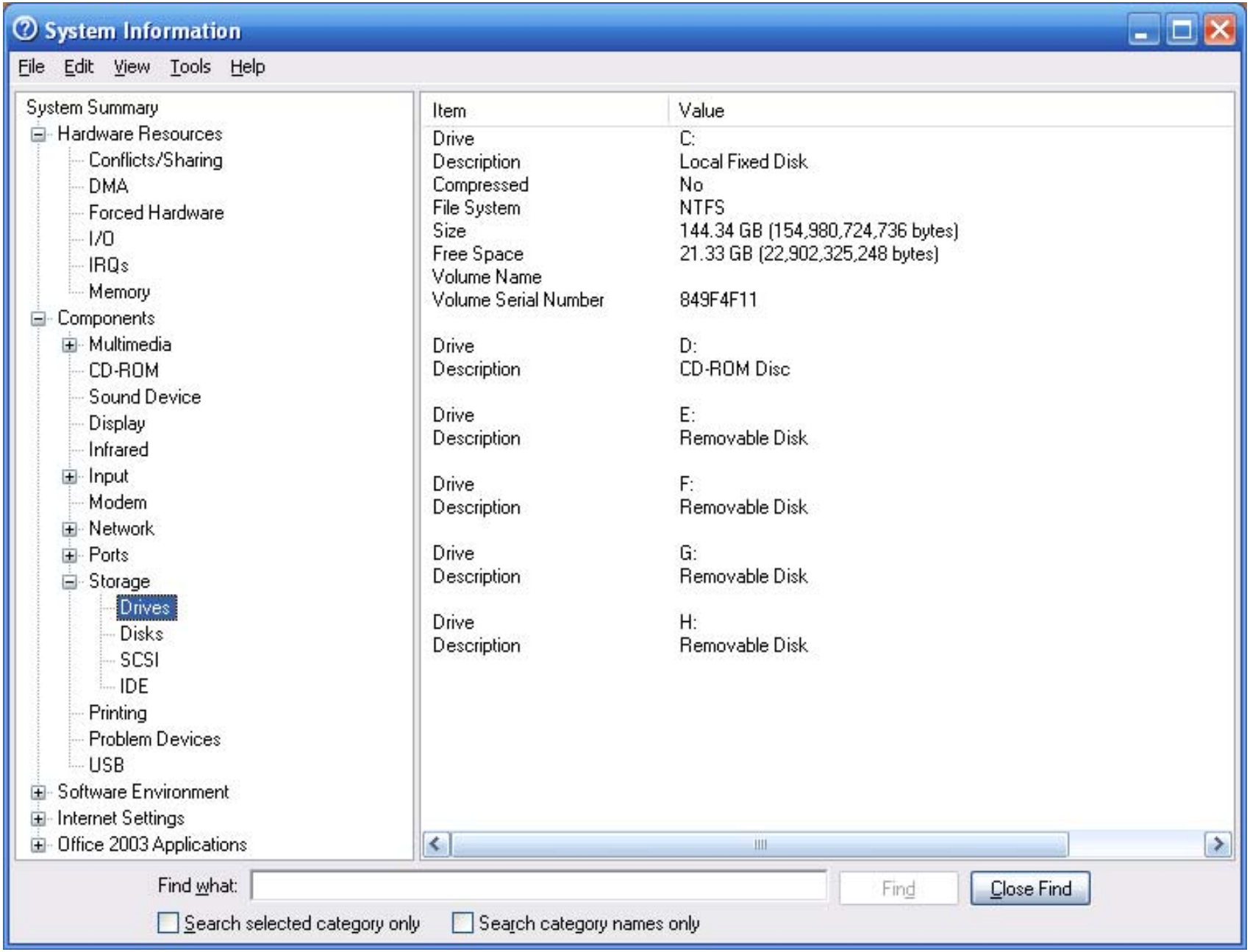
Windows XP System Information

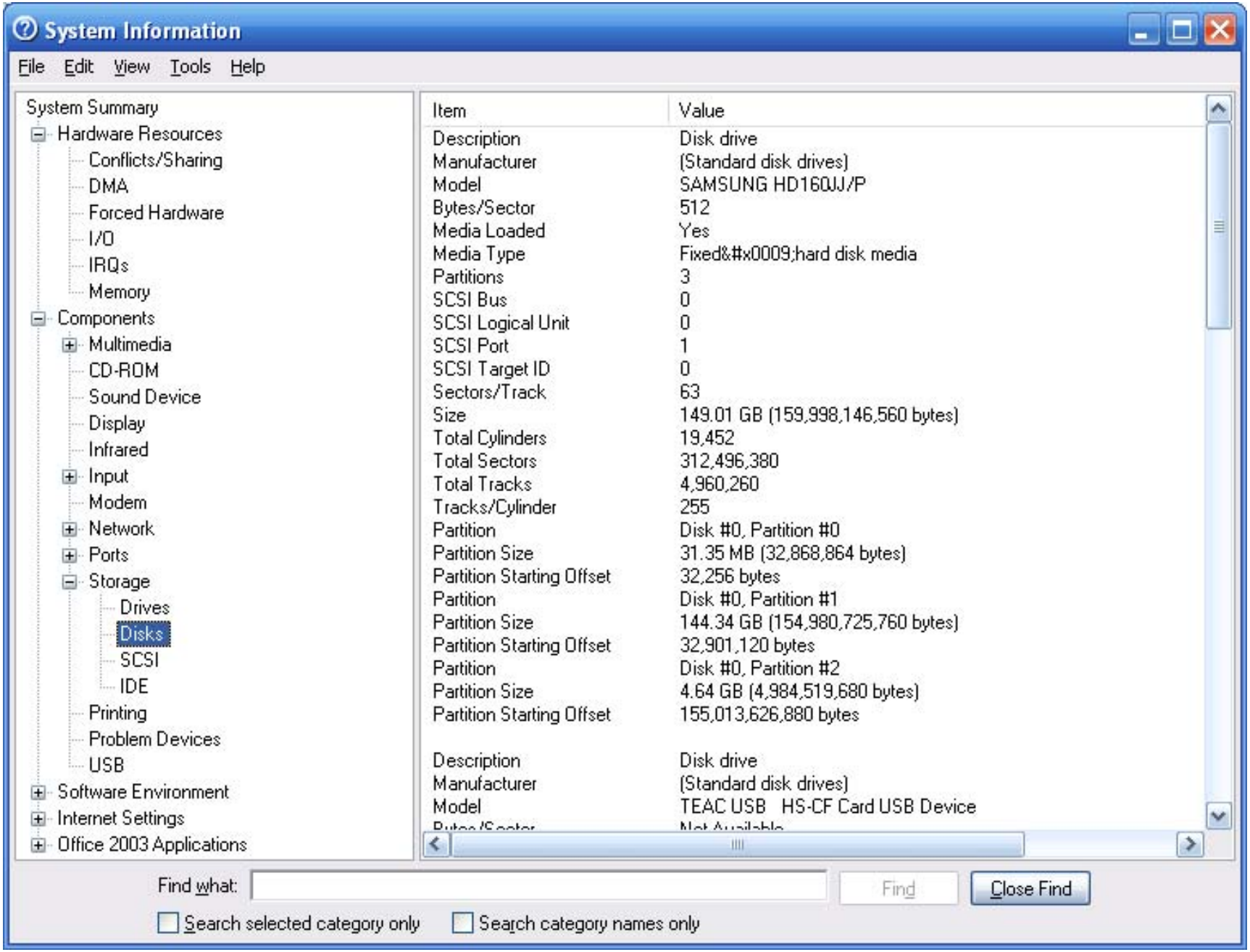
- Activation: Start > Run msinfo32 > OK



Windows XP system information tool




System Information
File Edit View Tools Help
System Summary
Hardware Resources
Conflicts/Sharing
DMA
Forced Hardware
I/O
IRQs
Memory
Components
Multimedia
CD-ROM
Sound Device
Display
Infrared
Input
Modem
Network
Ports
Storage
Drives
Disks
SCSI
IDE
Printing
Problem Devices
USB
Software Environment
Internet Settings
Office 2003 Applications
Item
Value
Drive C:
Description Local Fixed Disk
Compressed No
File System NTFS
Size 144.34 GB (154,980,724,736 bytes)
Free Space 21.33 GB (22,902,325,248 bytes)
Volume Name
Volume Serial Number 849F4F11
Drive D:
Description CD-ROM Disc
Drive E:
Description Removable Disk
Drive F:
Description Removable Disk
Drive G:
Description Removable Disk
Drive H:
Description Removable Disk
Find what:
Find
Close Find
Search selected category only
Search category names only


System Information
File Edit View Tools Help
System Summary
Hardware Resources
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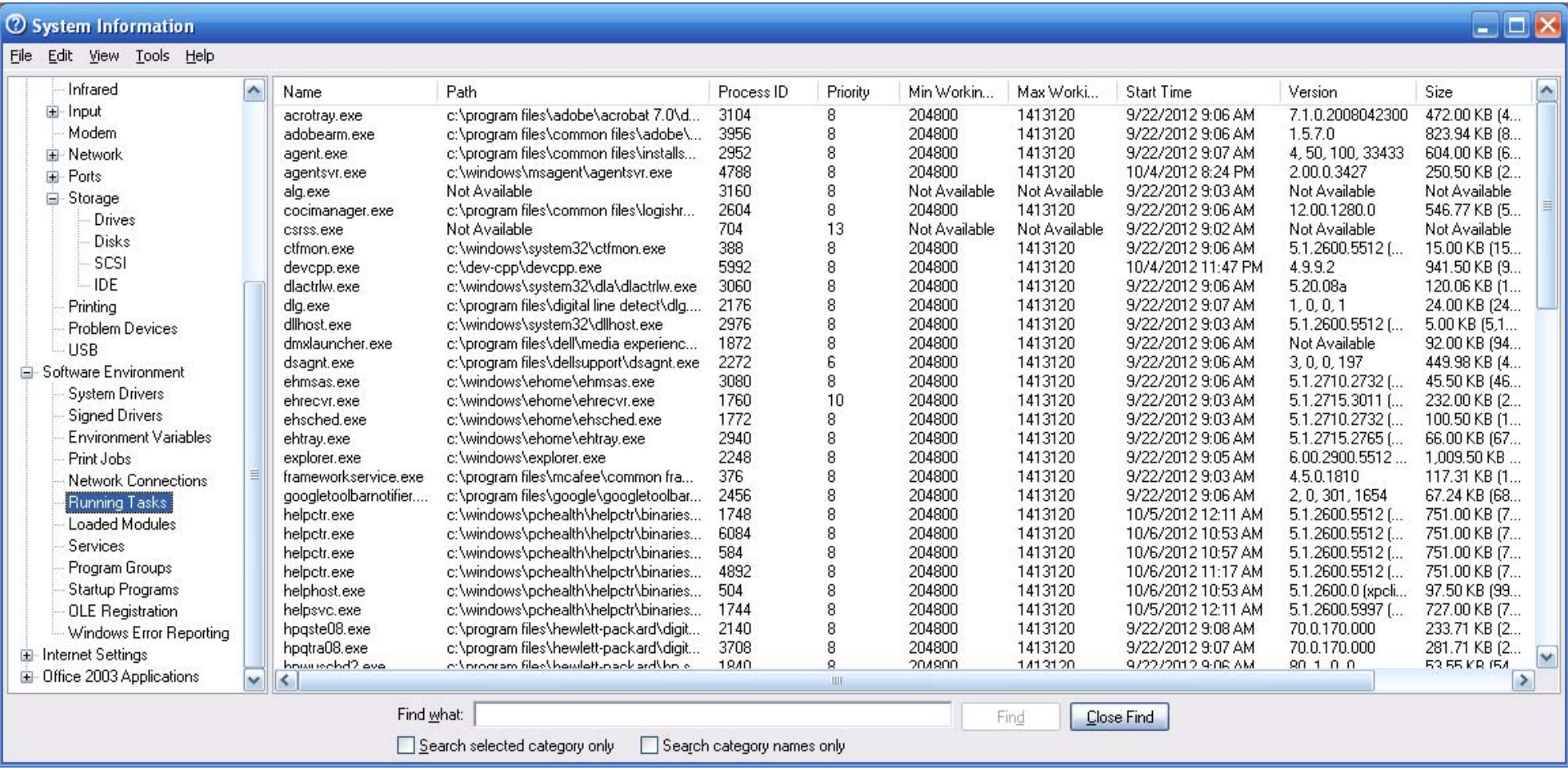
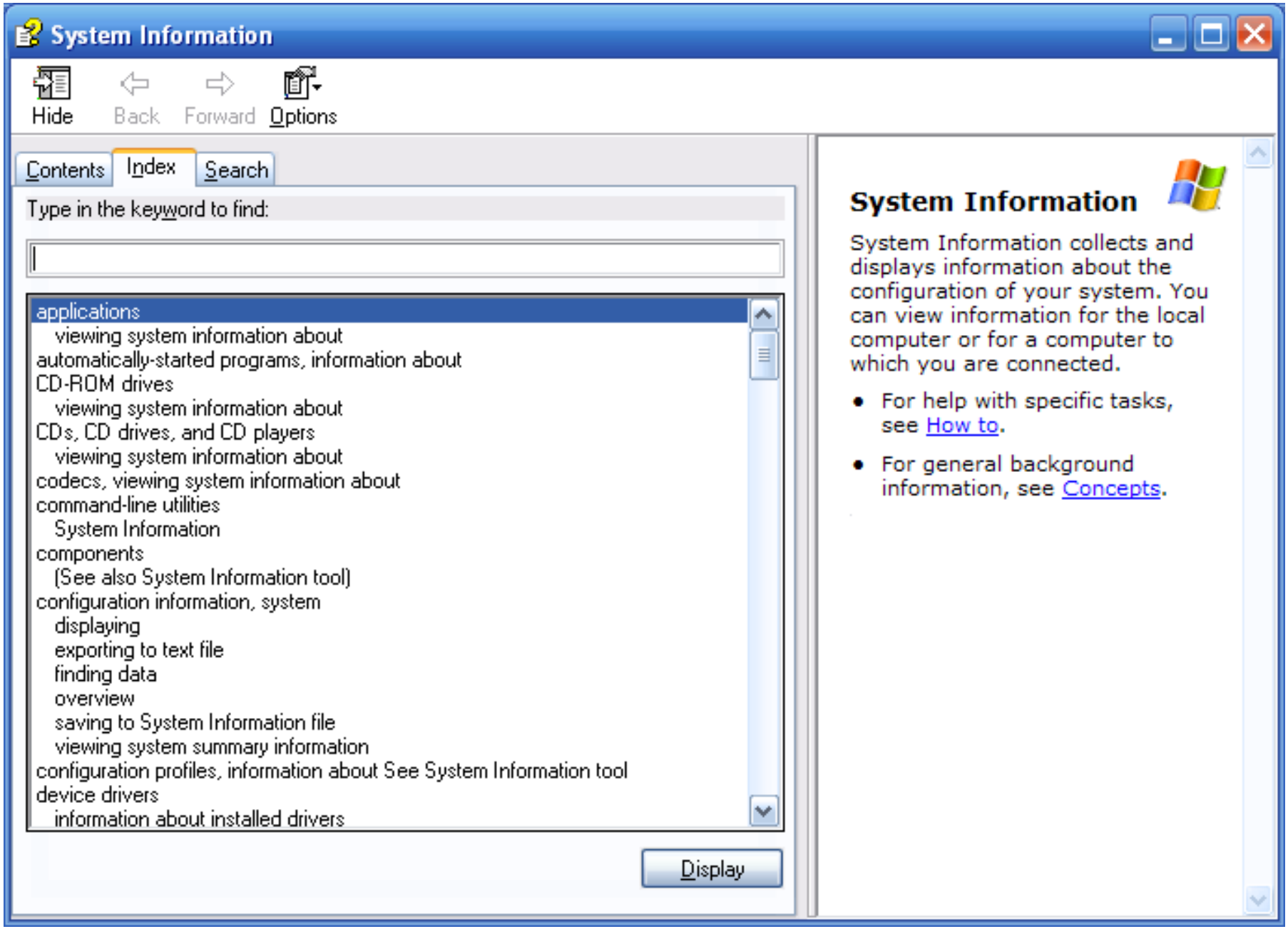
DMA
Forced Hardware
I/O
IRQs
Memory
Components
Multimedia
CD-ROM
Sound Device
Display
Infrared
Input
Modem
Network
Ports
Storage
Drives
Disks
SCSI
IDE
Printing
Problem Devices
USB
Software Environment
Internet Settings
Office 2003 Applications
Item
Value
Description Disk drive
Manufacturer (Standard disk drives)
Model SAMSUNG HD160JJ/P
Bytes/Sector 512
Media Loaded Yes
Media Type Fixed	hard disk media
Partitions 3
SCSI Bus 0
SCSI Logical Unit 0
SCSI Port 1
SCSI Target ID 0
Sectors/Track 63
Size 149.01 GB (159,998,146,560 bytes)
Total Cylinders 19,452
Total Sectors 312,496,380
Total Tracks 4,960,260
Tracks/Cylinder 255
Partition Disk #0, Partition #0
Partition Size 31.35 MB (32,868,864 bytes)
Partition Starting Offset 32,256 bytes
Partition Disk #0, Partition #1
Partition Size 144.34 GB (154,980,725,760 bytes)
Partition Starting Offset 32,901,120 bytes
Partition Disk #0, Partition #2
Partition Size 4.64 GB (4,984,519,680 bytes)
Partition Starting Offset 155,013,626,880 bytes
Description Disk drive
Manufacturer (Standard disk drives)
Model TEAC USB HS-CF Card USB Device
Find what:
Find
Close Find
Search selected category only
Search category names only


System Information
File Edit View Tools Help
Infrared
Input
Modem
Network
Ports
Storage
Drives
Disks
SCSI
IDE
Printing
Problem Devices
USB
Software Environment
System Drivers
Signed Drivers
Environment Variables
Print Jobs
Network Connections
Running Tasks
Loaded Modules
Services
Program Groups
Startup Programs
OLE Registration
Windows Error Reporting
Internet Settings
Office 2003 Applications
Name Path Process ID Priority Min Workin... Max Worki... Start Time Version Size
acrotray.exe c:\program files\adobe\acrobat 7.0\d... 3104 8 204800 1413120 9/22/2012 9:06 AM 7.1.0.2008042300 472.00 KB (4...
adobearm.exe c:\program files\common files\adobe\... 3956 8 204800 1413120 9/22/2012 9:06 AM 1.5.7.0 823.94 KB (8...
agent.exe c:\program files\common files\installs... 2952 8 204800 1413120 9/22/2012 9:07 AM 4, 50, 100, 33433 604.00 KB (6...
agentsvr.exe c:\windows\msagent\agentsvr.exe 4788 8 204800 1413120 10/4/2012 8:24 PM 2.00.0.3427 250.50 KB (2...
alg.exe Not Available 3160 8 Not Available Not Available 9/22/2012 9:03 AM Not Available Not Available
cocimanager.exe c:\program files\common files\logishr... 2604 8 204800 1413120 9/22/2012 9:06 AM 12.00.1280.0 546.77 KB (5...
csrss.exe Not Available 704 13 Not Available Not Available 9/22/2012 9:02 AM Not Available Not Available
ctfmon.exe c:\windows\system32\ctfmon.exe 388 8 204800 1413120 9/22/2012 9:06 AM 5.1.2600.5512 (... 15.00 KB (15...
devcpp.exe c:\dev-cpp\devcpp.exe 5992 8 204800 1413120 10/4/2012 11:47 PM 4.9.9.2 941.50 KB (9...
dlactrlw.exe c:\windows\system32\dla\dlactrlw.exe 3060 8 204800 1413120 9/22/2012 9:06 AM 5.20.08a 120.06 KB (1...
dlg.exe c:\program files\digital line detect\dlg.... 2176 8 204800 1413120 9/22/2012 9:07 AM 1, 0, 0, 1 24.00 KB (24...
dllhost.exe c:\windows\system32\dllhost.exe 2976 8 204800 1413120 9/22/2012 9:03 AM 5.1.2600.5512 (... 5.00 KB (5,1...
dmxlauncher.exe c:\program files\dell\media experienc... 1872 8 204800 1413120 9/22/2012 9:06 AM Not Available 92.00 KB (94...
dsagnt.exe c:\program files\dellsupport\dsagnt.exe 2272 6 204800 1413120 9/22/2012 9:06 AM 3, 0, 0, 197 449.98 KB (4...
ehmsas.exe c:\windows\ehome\ehmsas.exe 3080 8 204800 1413120 9/22/2012 9:06 AM 5.1.2710.2732 (... 45.50 KB (46...
ehrecvr.exe c:\windows\ehome\ehrecvr.exe 1760 10 204800 1413120 9/22/2012 9:03 AM 5.1.2715.3011 (... 232.00 KB (2...
ehsched.exe c:\windows\ehome\ehsched.exe 1772 8 204800 1413120 9/22/2012 9:03 AM 5.1.2710.2732 (... 100.50 KB (1...
ehtray.exe c:\windows\ehome\ehtray.exe 2940 8 204800 1413120 9/22/2012 9:06 AM 5.1.2715.2765 (... 66.00 KB (67...
explorer.exe c:\windows\explorer.exe 2248 8 204800 1413120 9/22/2012 9:05 AM 6.00.2900.5512 ... 1,009.50 KB ...
frameworkservice.exe c:\program files\mcafee\common fra... 376 8 204800 1413120 9/22/2012 9:03 AM 4.5.0.1810 117.31 KB (1...
googletoolbarnotifier.... c:\program files\google\googletoolbar... 2456 8 204800 1413120 9/22/2012 9:06 AM 2, 0, 301, 1654 67.24 KB (68...
helpctr.exe c:\windows\pchealth\helpctr\binaries... 1748 8 204800 1413120 10/5/2012 12:11 AM 5.1.2600.5512 (... 751.00 KB (7...
helpctr.exe c:\windows\pchealth\helpctr\binaries... 6084 8 204800 1413120 10/6/2012 10:53 AM 5.1.2600.5512 (... 751.00 KB (7...
helpctr.exe c:\windows\pchealth\helpctr\binaries... 584 8 204800 1413120 10/6/2012 10:57 AM 5.1.2600.5512 (... 751.00 KB (7...
helpctr.exe c:\windows\pchealth\helpctr\binaries... 4892 8 204800 1413120 10/6/2012 11:17 AM 5.1.2600.5512 (... 751.00 KB (7...
helphost.exe c:\windows\pchealth\helpctr\binaries... 504 8 204800 1413120 10/6/2012 10:53 AM 5.1.2600.0 (xpcli... 97.50 KB (99...
helpsvc.exe c:\windows\pchealth\helpctr\binaries... 1744 8 204800 1413120 10/5/2012 12:11 AM 5.1.2600.5997 (... 727.00 KB (7...
hpqste08.exe c:\program files\hewlett-packard\digit... 2140 8 204800 1413120 9/22/2012 9:08 AM 70.0.170.000 233.71 KB (2...
hpqtra08.exe c:\program files\hewlett-packard\digit... 3708 8 204800 1413120 9/22/2012 9:07 AM 70.0.170.000 281.71 KB (2...
Find what:
Find
Close Find
Search selected category only
Search category names only

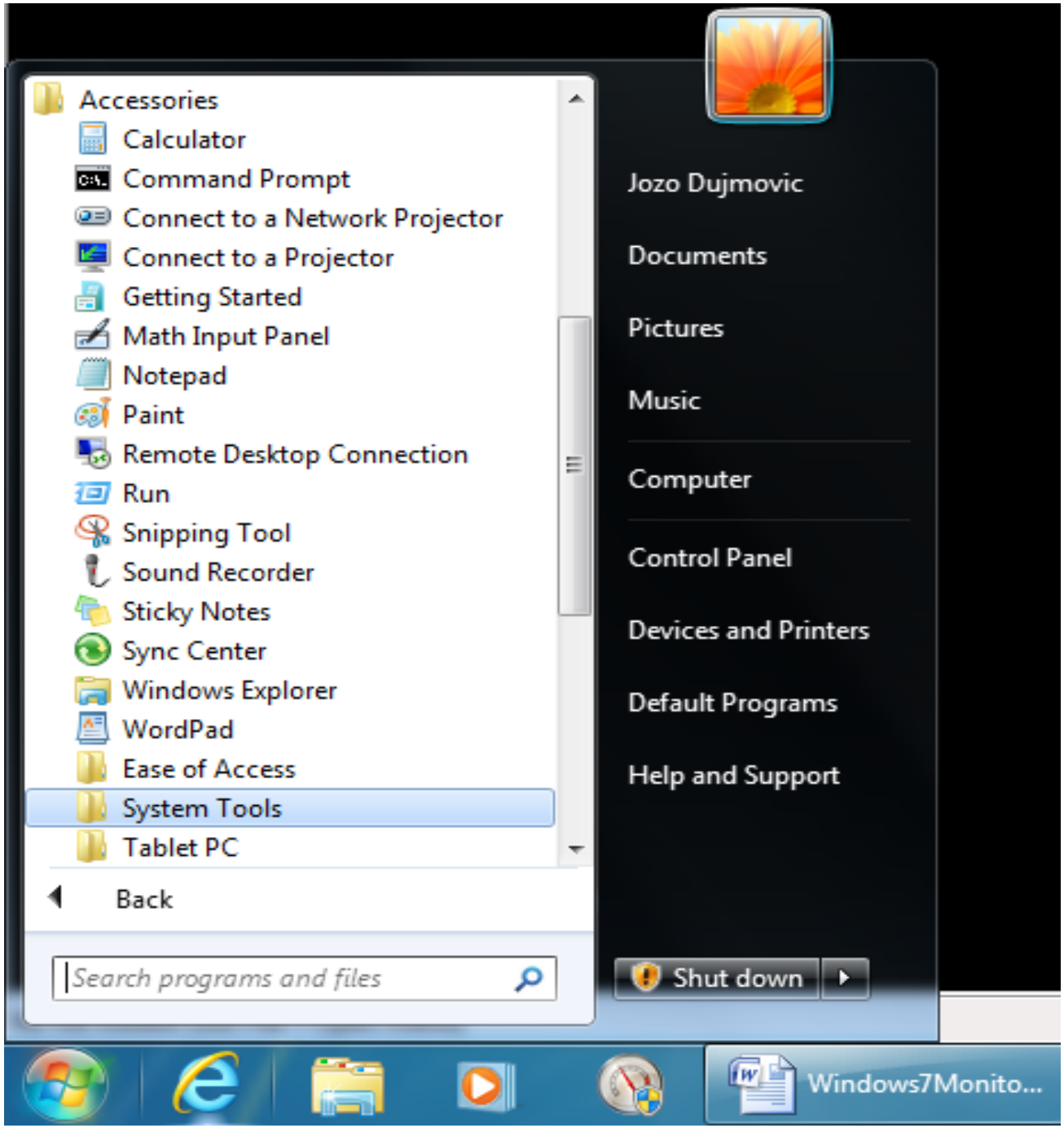

System Information
Hide
Back
Forward
Options
Contents
Index
Search
Type in the keyword to find:
applications
viewing system information about
automatically-started programs, information about
CD-ROM drives
viewing system information about
CDs, CD drives, and CD players
viewing system information about
codecs, viewing system information about
command-line utilities
System Information
components
(See also System Information tool)
configuration information, system
displaying
exporting to text file
finding data
overview
saving to System Information file
viewing system summary information
configuration profiles, information about See System Information tool
device drivers
information about installed drivers
Display
System Information
System Information collects and displays information about the configuration of your system. You can view information for the local computer or for a computer to which you are connected.
For help with specific tasks, see How to.
For general background information, see Concepts.

Windows 7 system information

Activation:

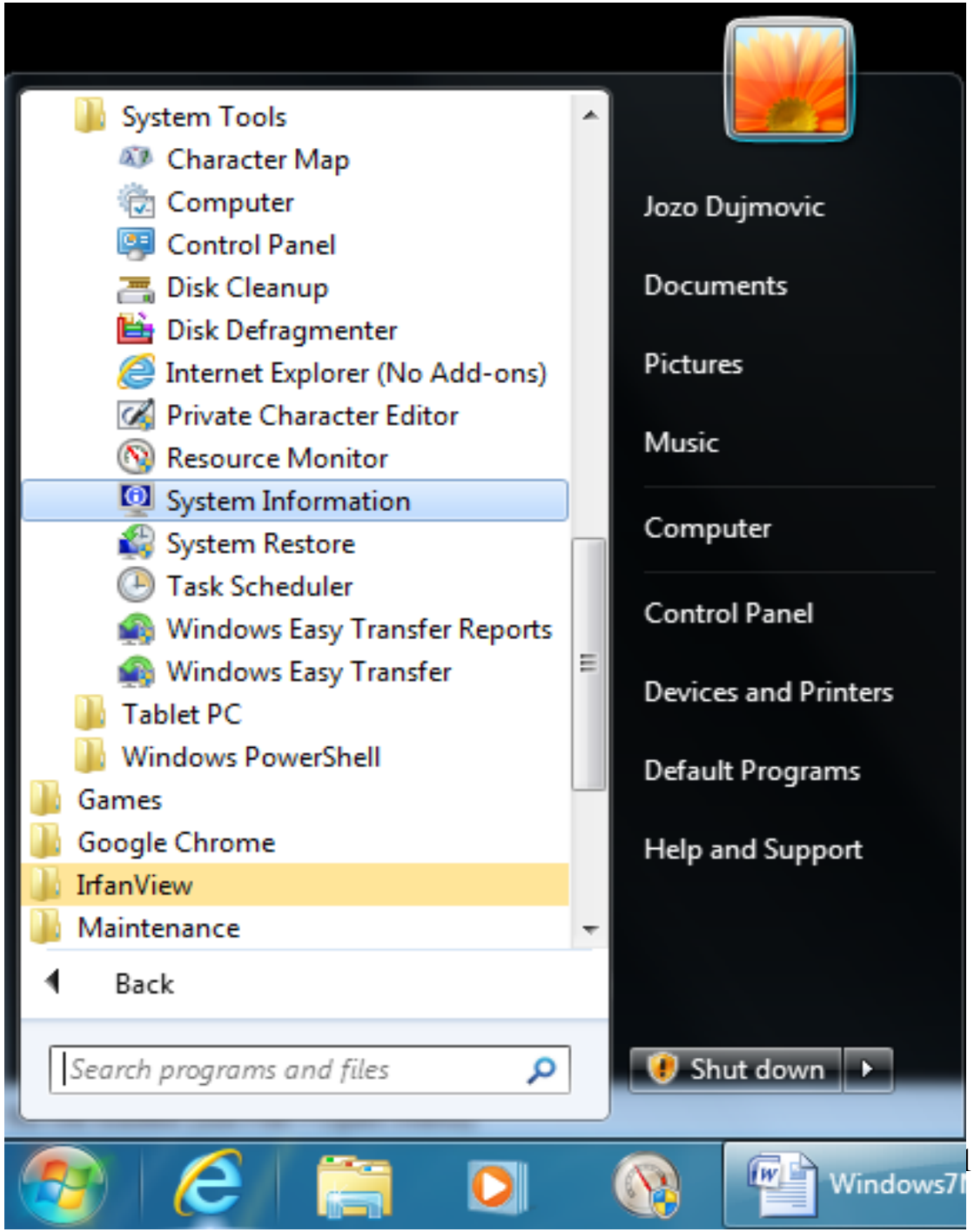
Start > All programs > Accessories >
System Tools > System Information

Windows 7 Accessories

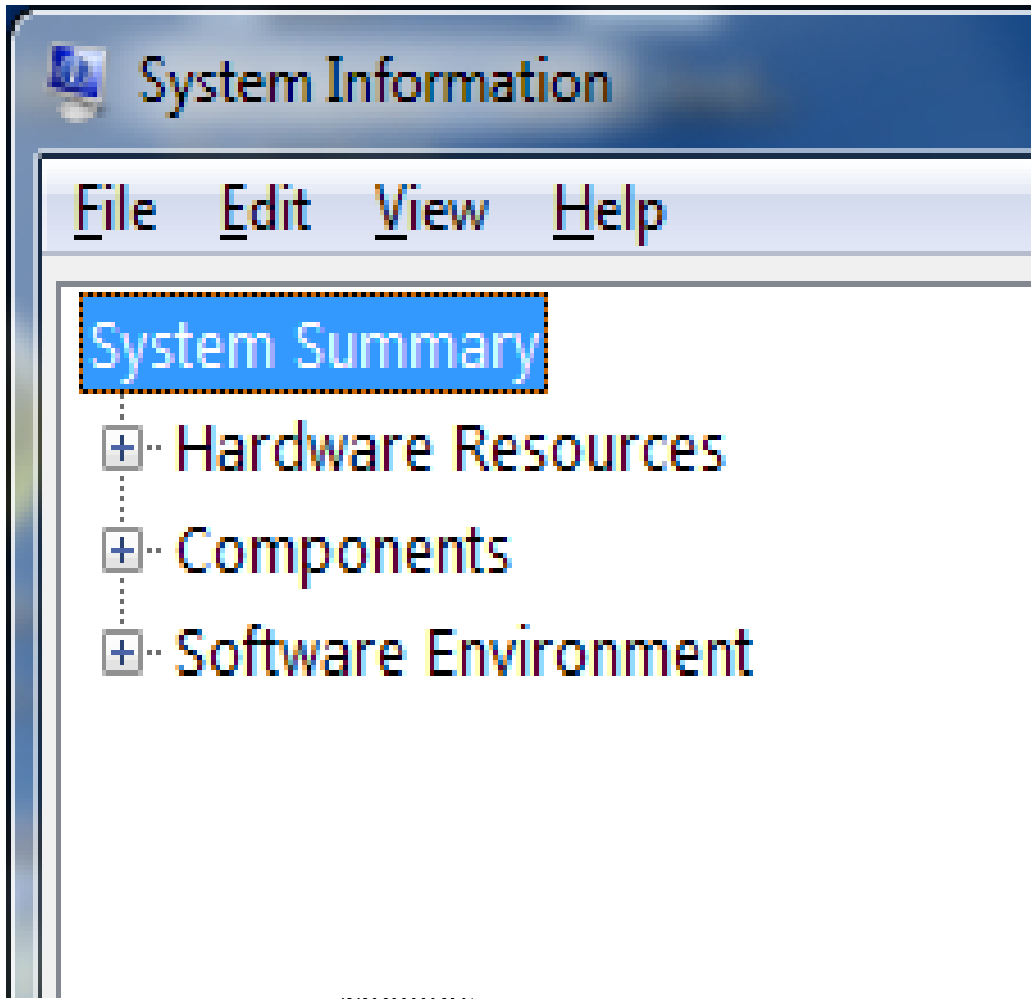


Jozo Dujmović

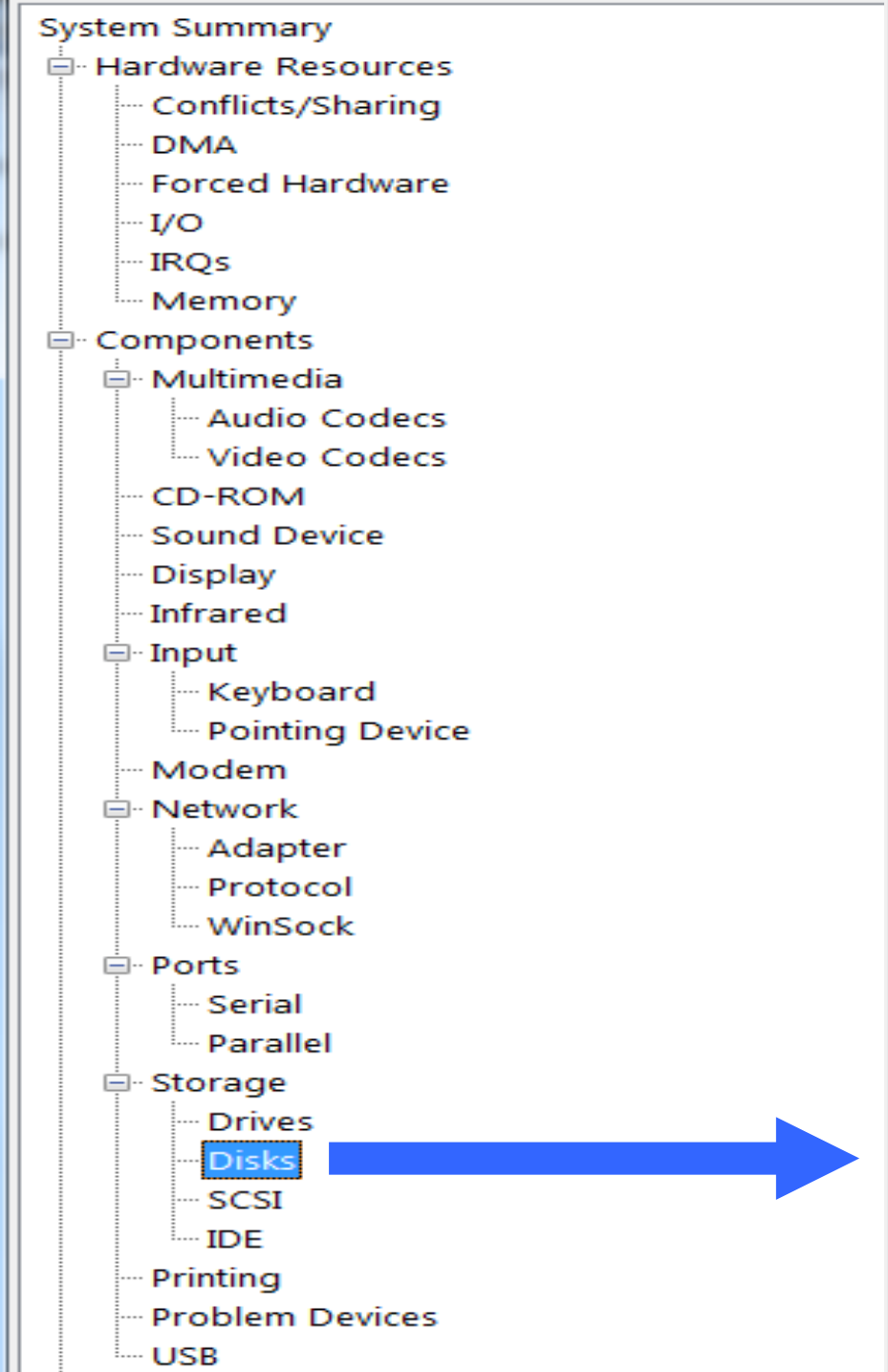
System tools



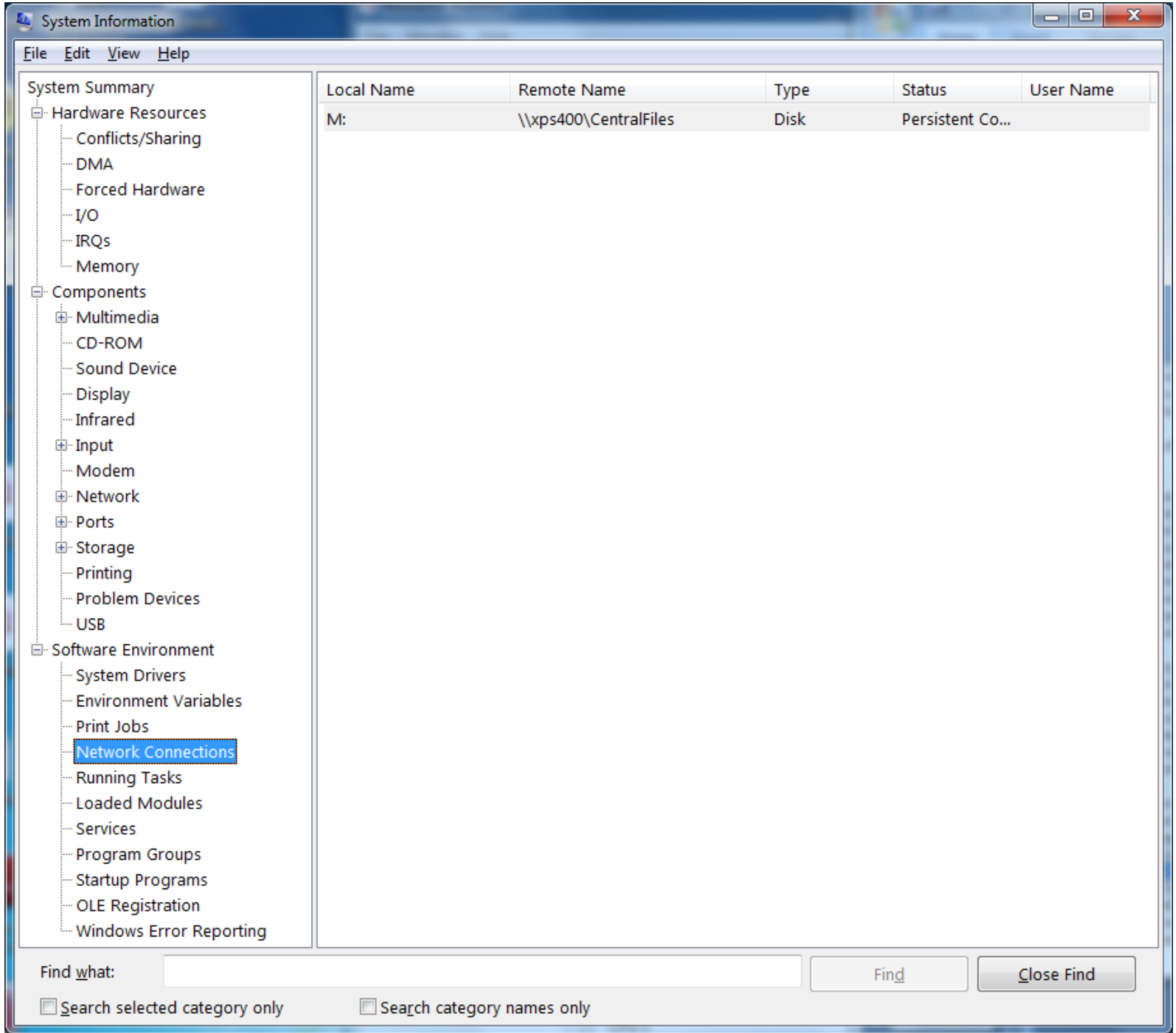
Windows 7 System Information



Item	Value
OS Name	Microsoft Windows 7 Professional
Version	6.1.7601 Service Pack 1 Build 7601
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	ZT
System Manufacturer	MICRO-STAR INTERNATIONAL CO.,LTD
System Model	MS-7596
System Type	x64-based PC
Processor	AMD Phenom(tm) II X4 955 Processor, 3200 Mhz, 4 Core(s), 4 Logical Processor(s)
BIOS Version/Date	American Megatrends Inc. V1.0B1, 4/20/2010
SMBIOS Version	2.5
Windows Directory	C:\windows
System Directory	C:\windows\system32
Boot Device	\Device\HarddiskVolume1
Locale	United States
Hardware Abstraction Layer	Version = "6.1.7601.17514"
User Name	ZT\Jozo Dujmovic
Time Zone	Pacific Daylight Time
Installed Physical Memory (RAM)	6.00 GB
Total Physical Memory	5.75 GB
Available Physical Memory	4.04 GB
Total Virtual Memory	11.5 GB
Available Virtual Memory	9.86 GB
Page File Space	5.75 GB
Page File	C:\pagefile.sys



Item	Value
Description	Disk drive
Manufacturer	(Standard disk drives)
Model	SAMSUNG HD103SJ ATA Device
Bytes/Sector	512
Media Loaded	Yes
Media Type	Fixed hard disk
Partitions	2
SCSI Bus	0
SCSI Logical Unit	0
SCSI Port	0
SCSI Target ID	0
Sectors/Track	63
Size	931.51 GB (1,000,202,273,280 bytes)
Total Cylinders	121,601
Total Sectors	1,953,520,065
Total Tracks	31,008,255
Tracks/Cylinder	255
Partition	Disk #0, Partition #0
Partition Size	100.00 MB (104,857,600 bytes)
Partition Starting Offset	1,048,576 bytes
Partition	Disk #0, Partition #1
Partition Size	931.41 GB (1,000,097,931,264 bytes)
Partition Starting Offset	105,906,176 bytes
Description	Disk drive
Manufacturer	(Standard disk drives)
Model	Generic USB CF Reader USB Device
Bytes/Sector	Not Available
Media Loaded	Yes
Media Type	Not Available
Partitions	0
SCSI Bus	Not Available
SCSI Logical Unit	Not Available
SCSI Port	Not Available
SCSI Target ID	Not Available
Sectors/Track	Not Available


System Information
File Edit View Help
System Summary
Hardware Resources
Conflicts/Sharing
DMA
Forced Hardware
I/O
IRQs
Memory
Components
Multimedia
CD-ROM
Sound Device
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Modem
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Ports
Storage
Printing
Problem Devices
USB
Software Environment
System Drivers
Environment Variables
Print Jobs
Network Connections
Running Tasks
Loaded Modules
Services
Program Groups
Startup Programs
OLE Registration
Windows Error Reporting
Local Name
Remote Name
Type
Status
User Name
M:
\\xps400\CentralFiles
Disk
Persistent Co...
Find what:
Find
Close Find
Search selected category only
Search category names only

Jozo

CPU-Z

- Provider: CPUID
- Location of provider: Dunkerque
- Country: France
- Internet: www.cpuid.com
- Tool: CPU-Z
- Legal: freeware

Collected information

CPU

- Name and number.
- Core stepping and process.
- Package.
- Core voltage.
- Internal and external clocks, clock multiplier.
- Supported instruction sets.
- Cache information.

Mainboard

- Vendor, model and revision.
- BIOS model and date.
- Chipset (northbridge and southbridge) and sensor.
- Graphic interface.

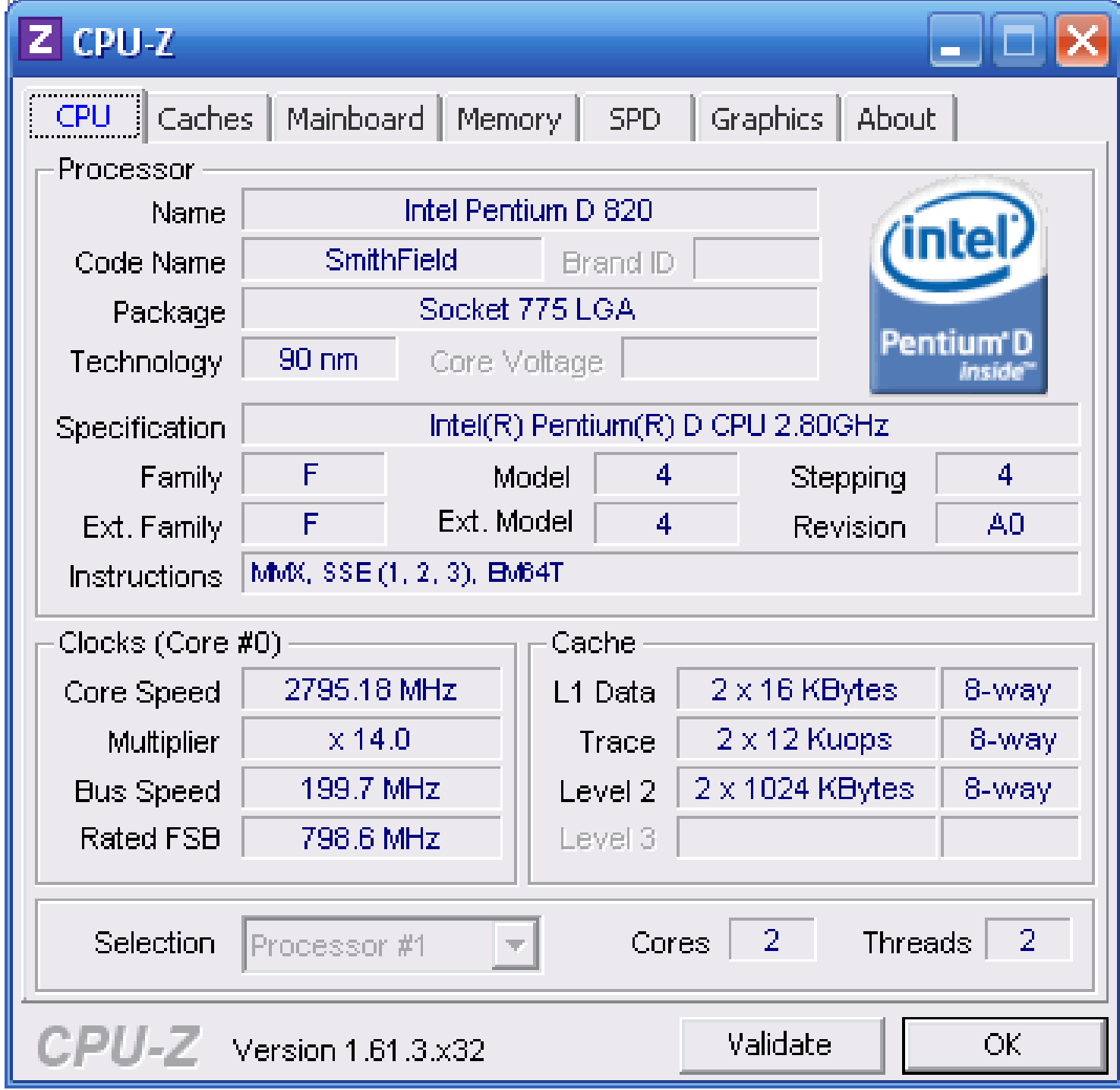
Memory

- Frequency and timings.
- Module(s) specification using SPD (Serial Presence Detect) : vendor, serial number, timings table.

System

- Windows and DirectX version.

CPU-Z



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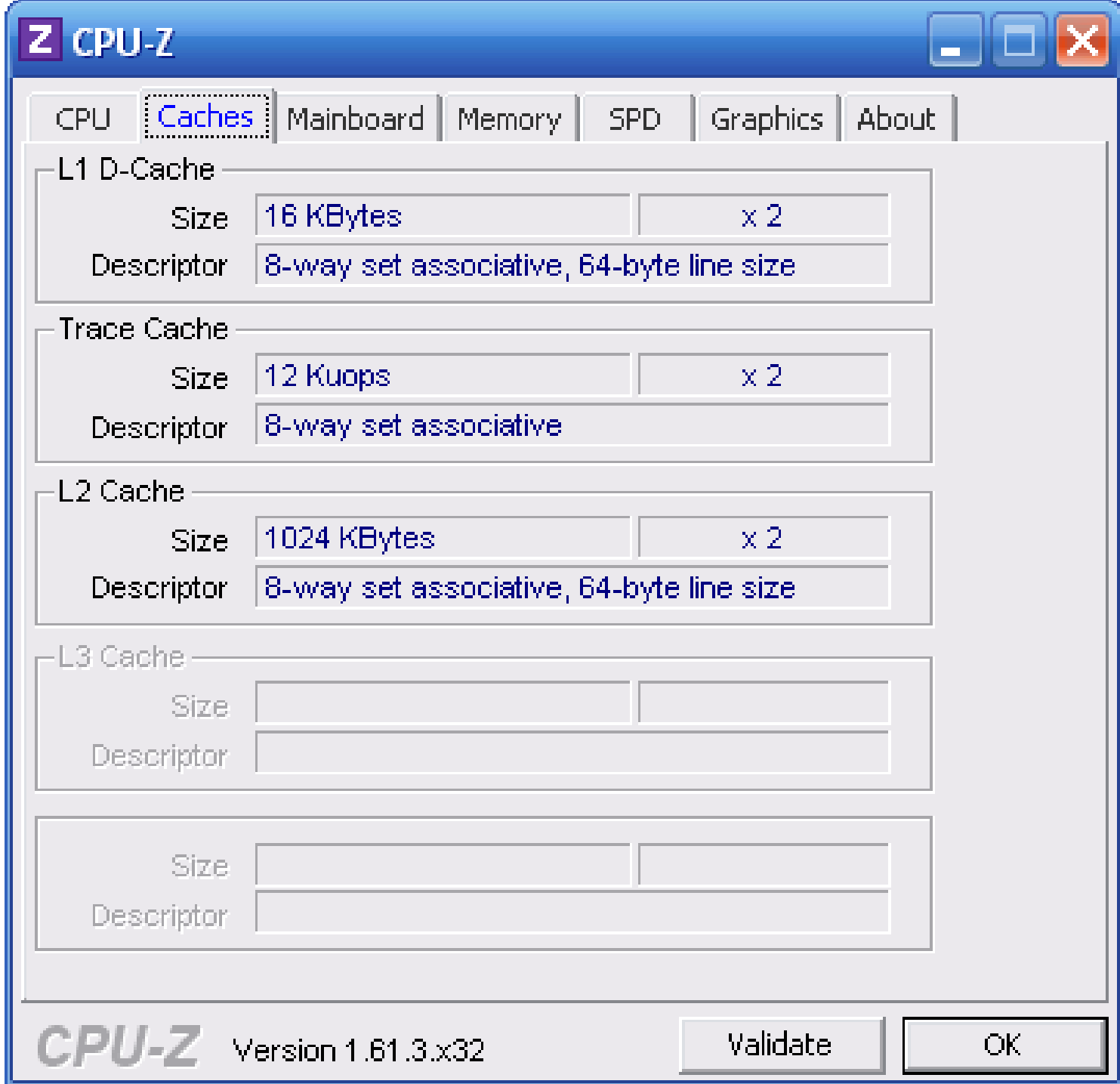

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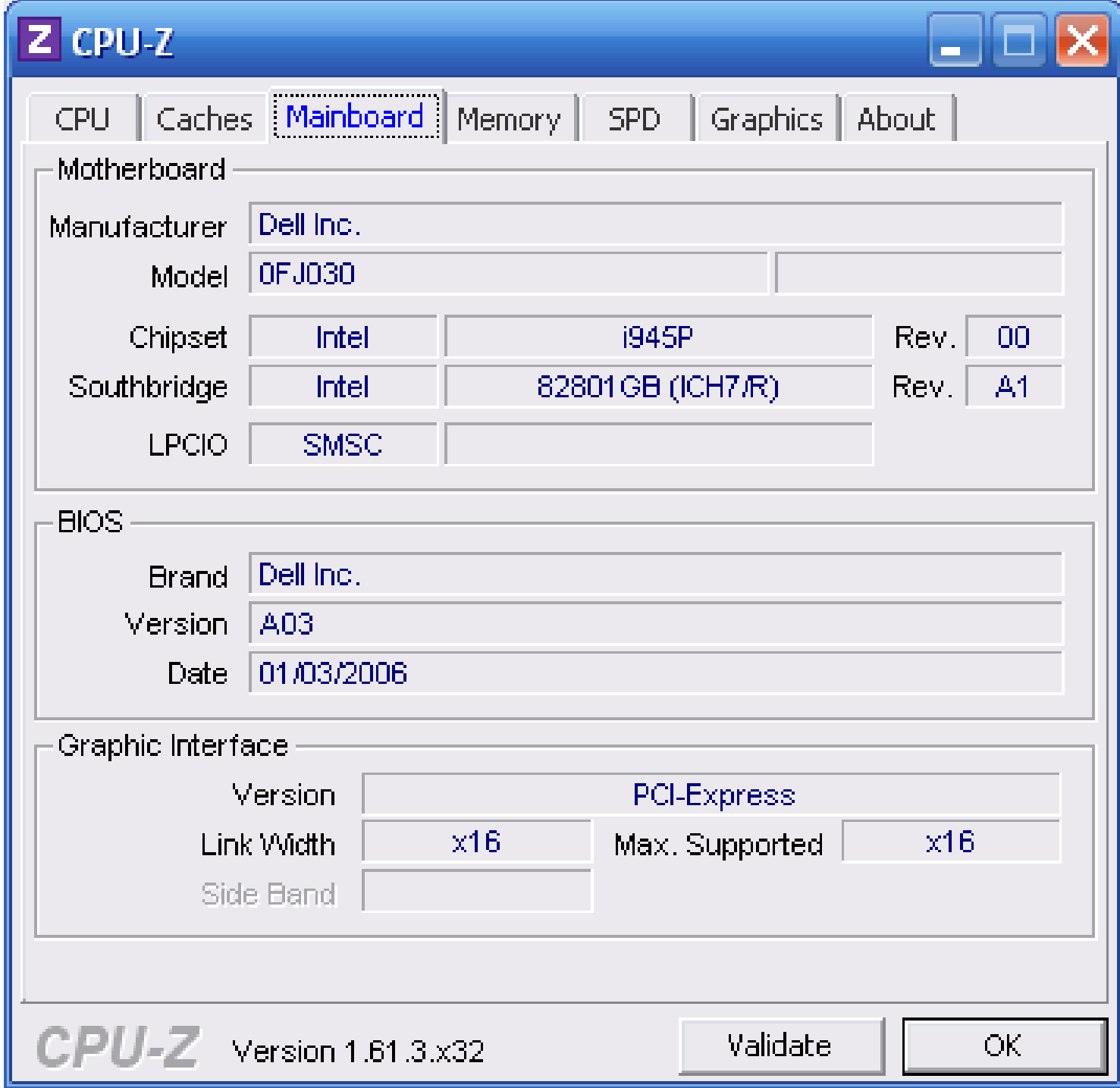

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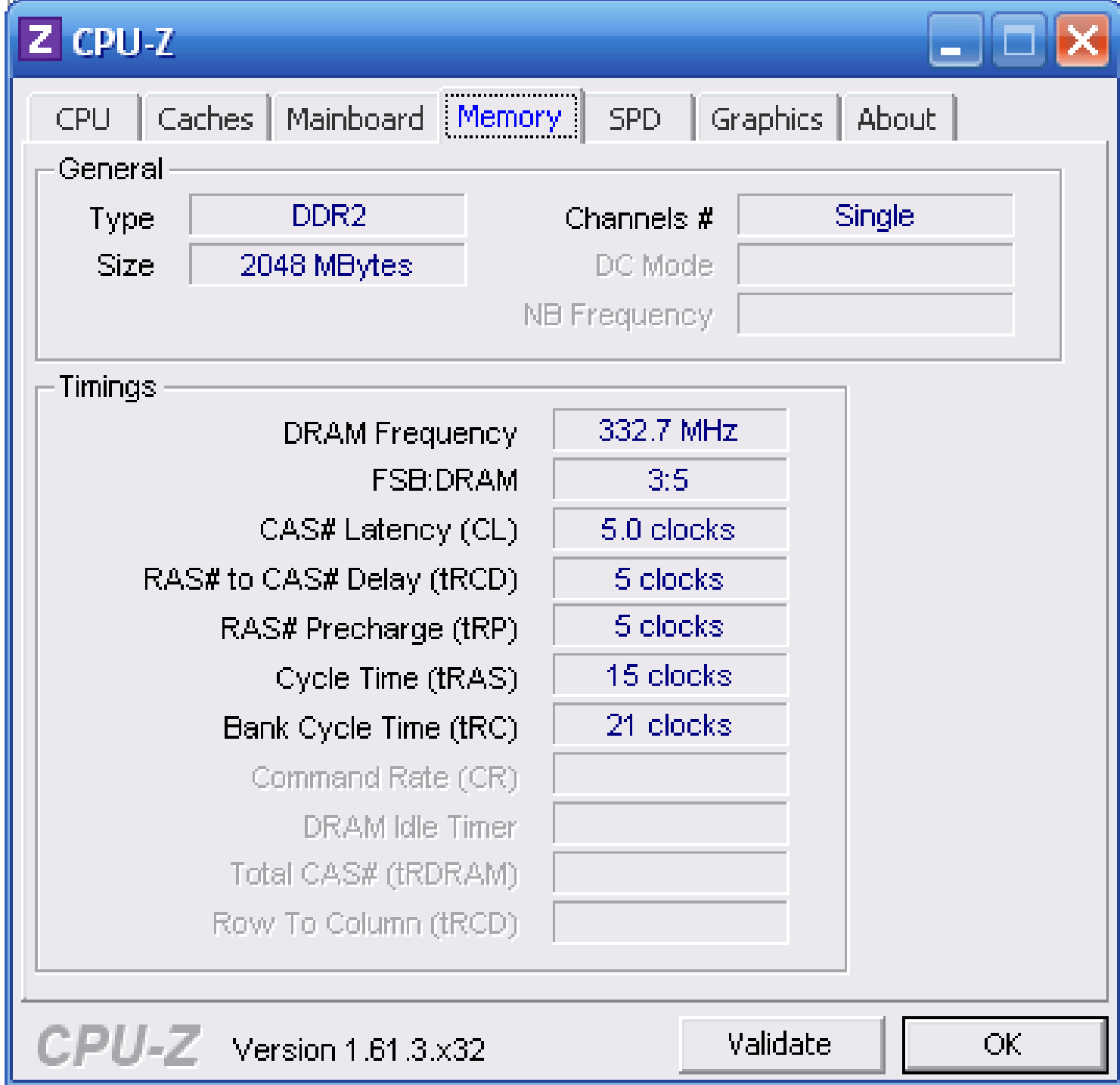

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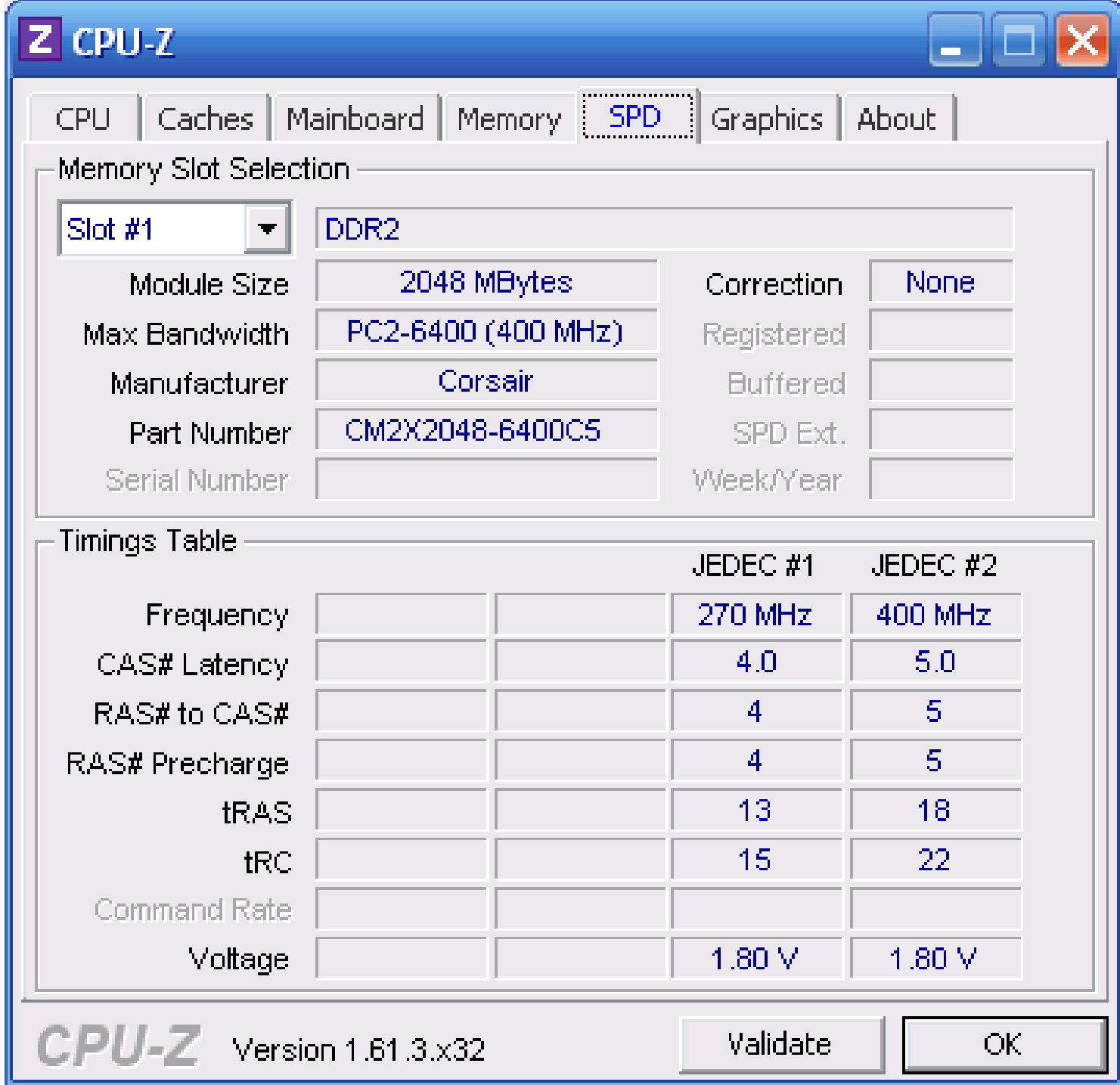
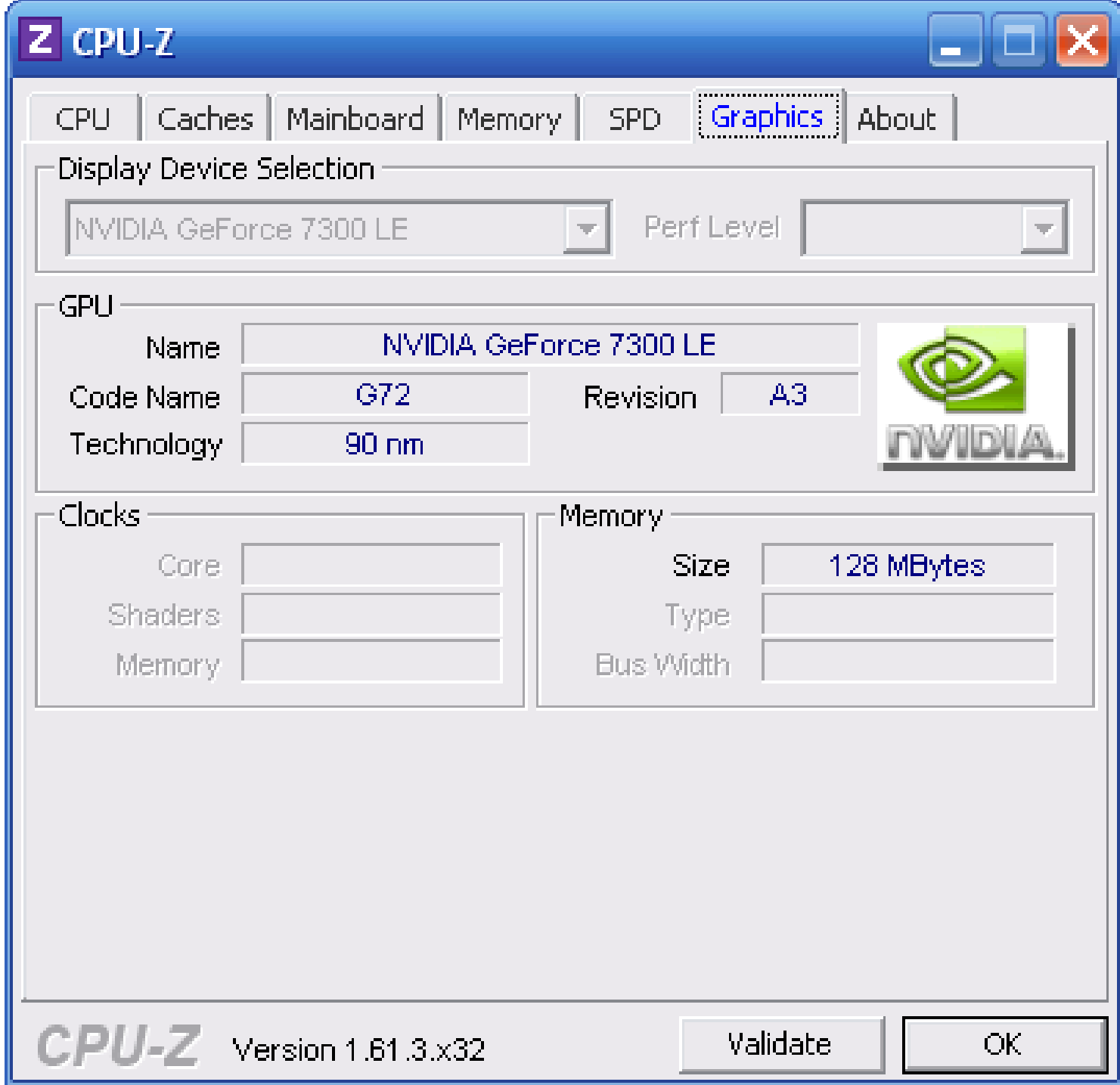


Jozo Dujmović



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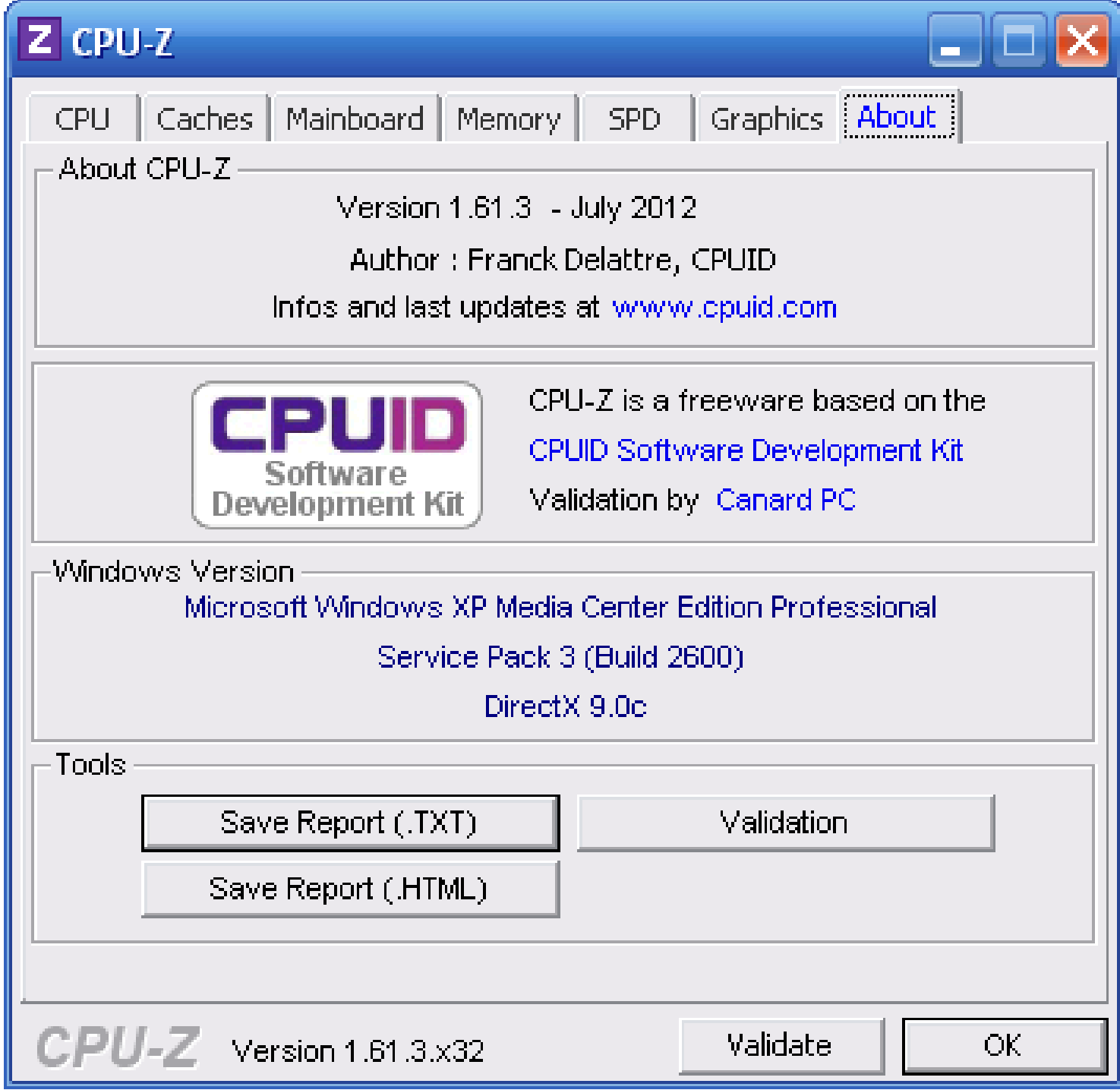
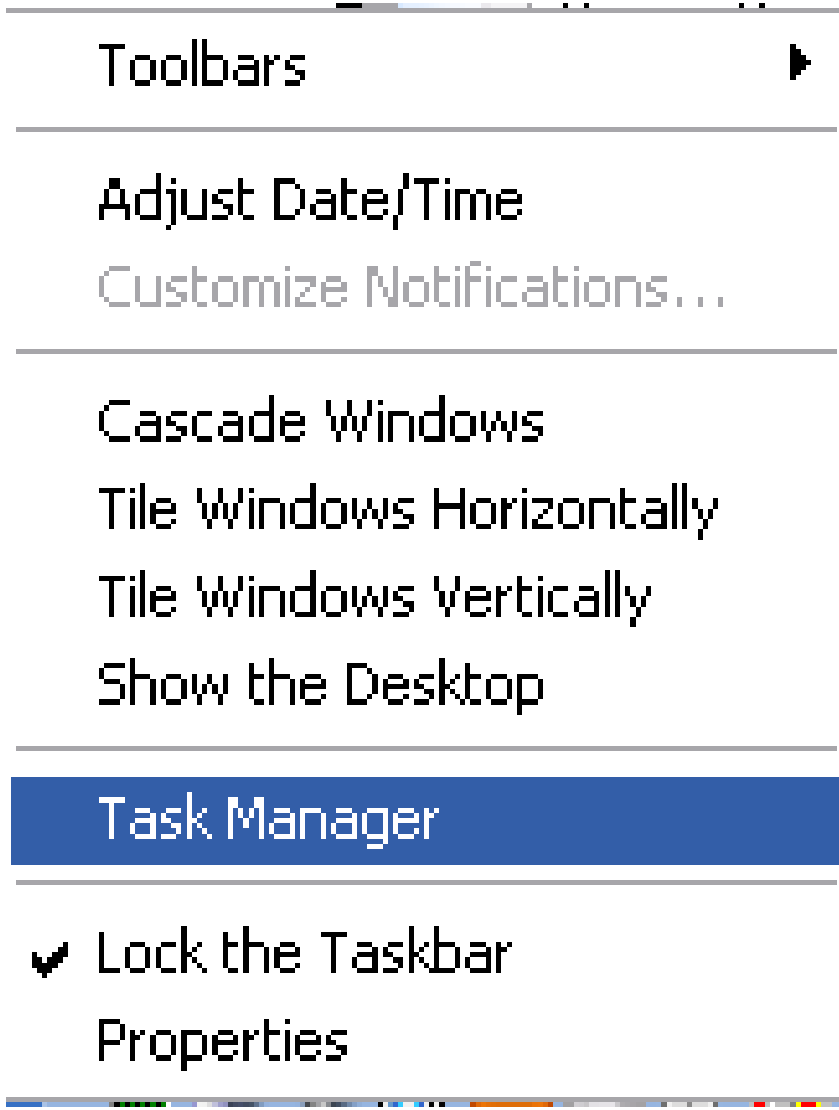

CPU-Z
CPU
Caches
Mainboard
Memory
SPD
Graphics
About
About CPU-Z
Version 1.61.3 - July 2012
Author : Franck Delattre, CPUID
Infos and last updates at www.cpuid.com
CPUID
Software
Development Kit
CPU-Z is a freeware based on the
CPUID Software Development Kit
Validation by Canard PC
Windows Version
Microsoft Windows XP Media Center Edition Professional
Service Pack 3 (Build 2600)
DirectX 9.0c
Tools
Save Report (.TXT)
Validation
Save Report (.HTML)
CPU-Z
Version 1.61.3.x32
Validate
OK

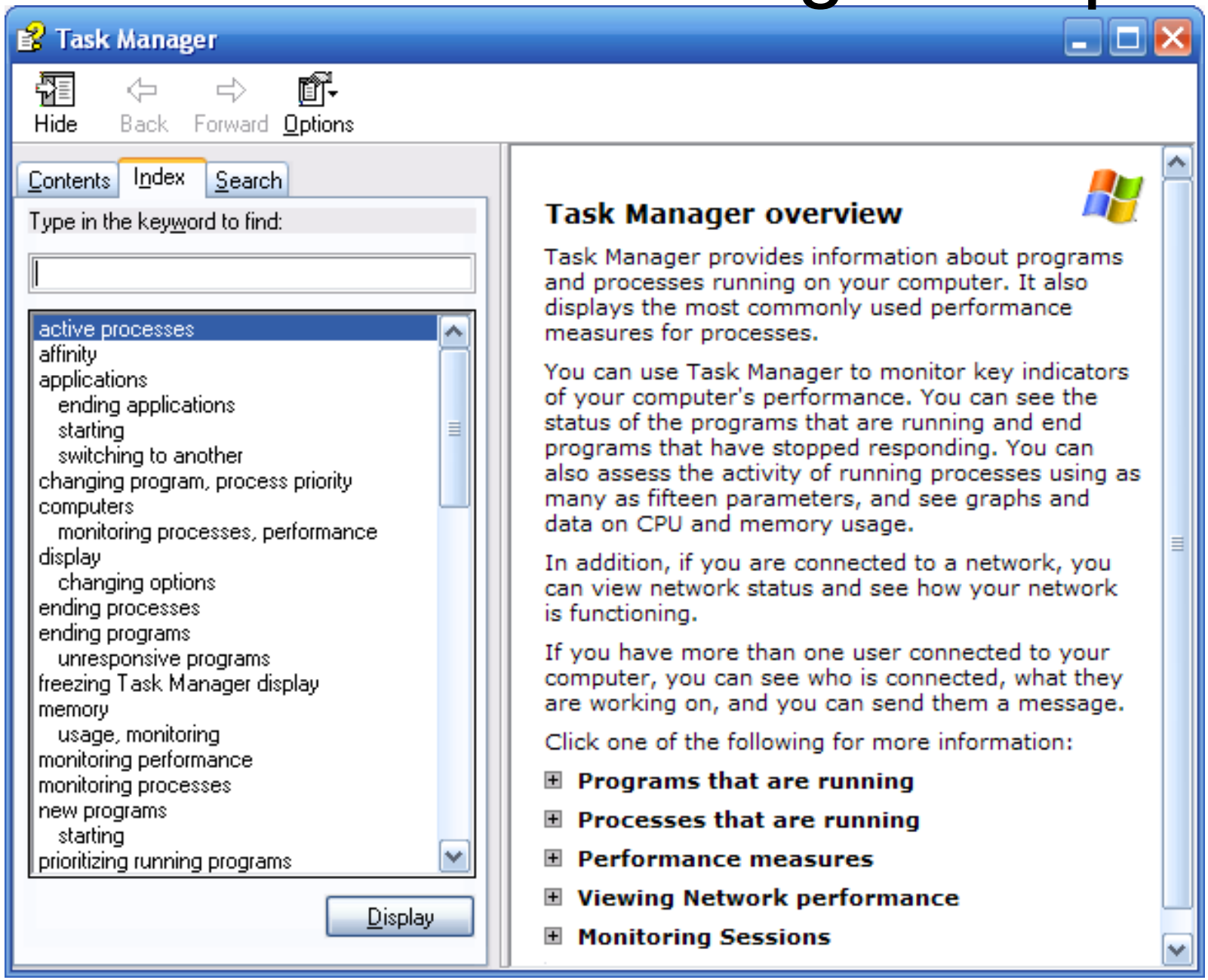
Other CPUID performance products

Windows XP Task Manager

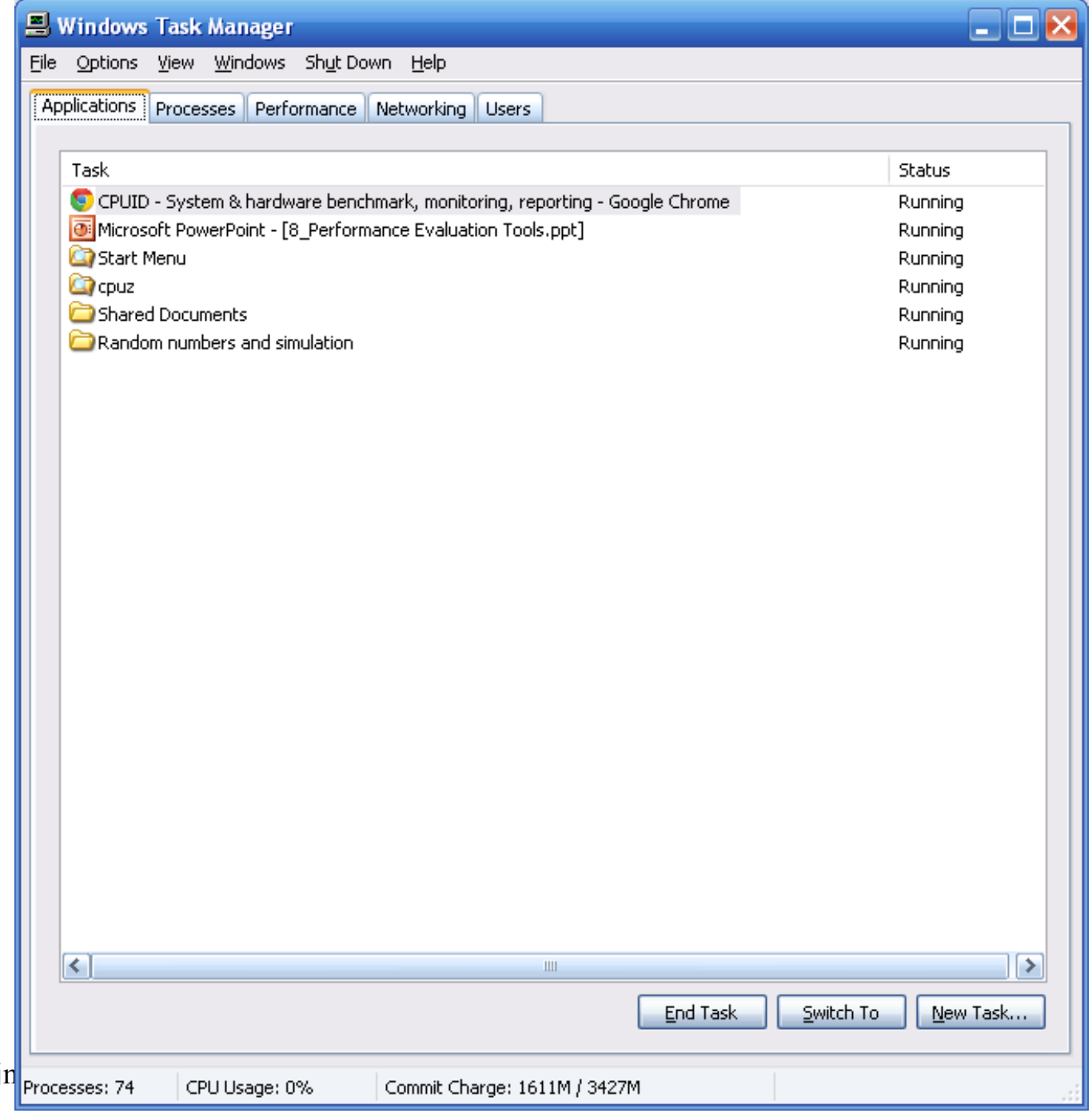
- Right mouse click on taskbar
- Select Task Manager

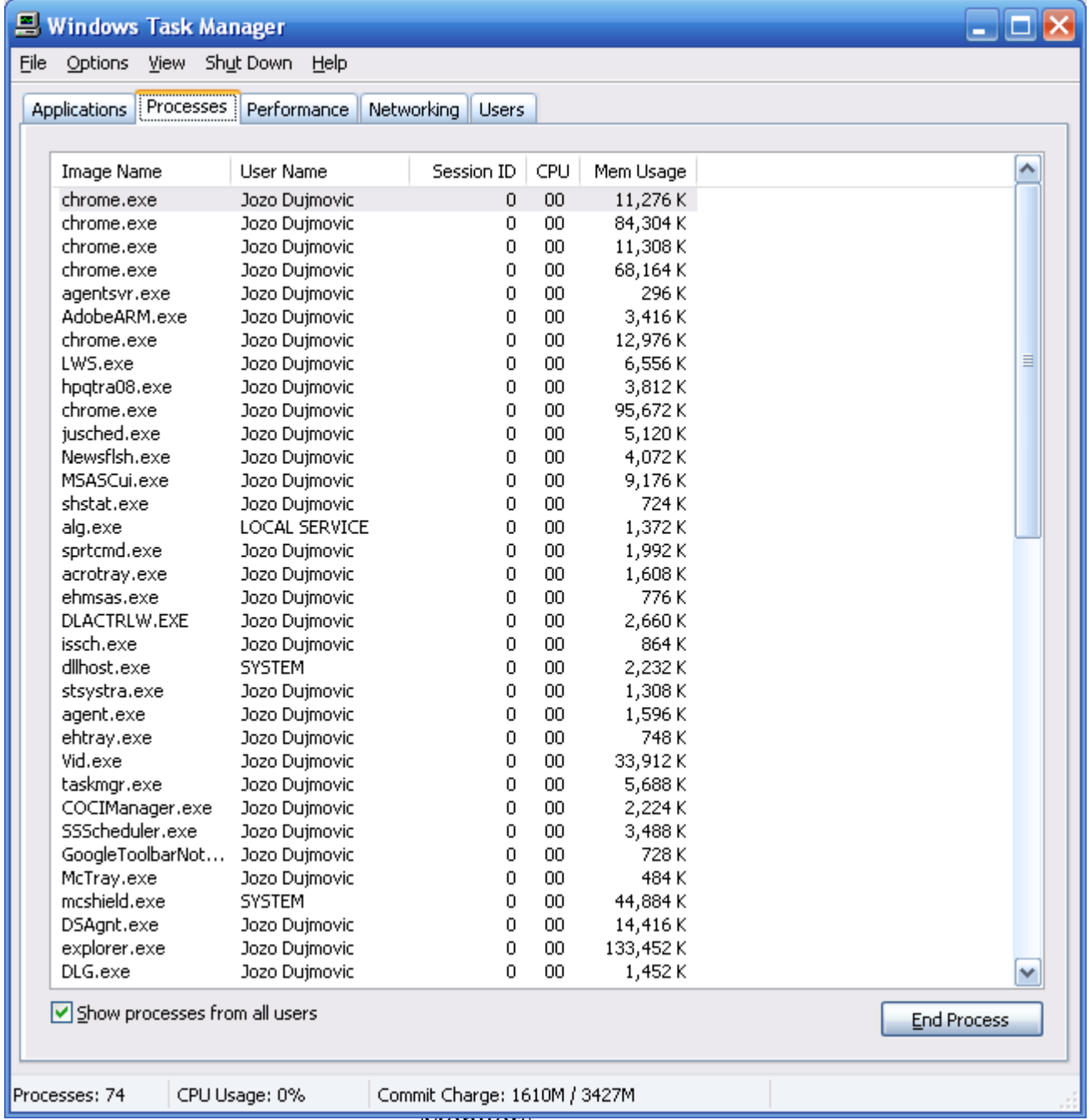


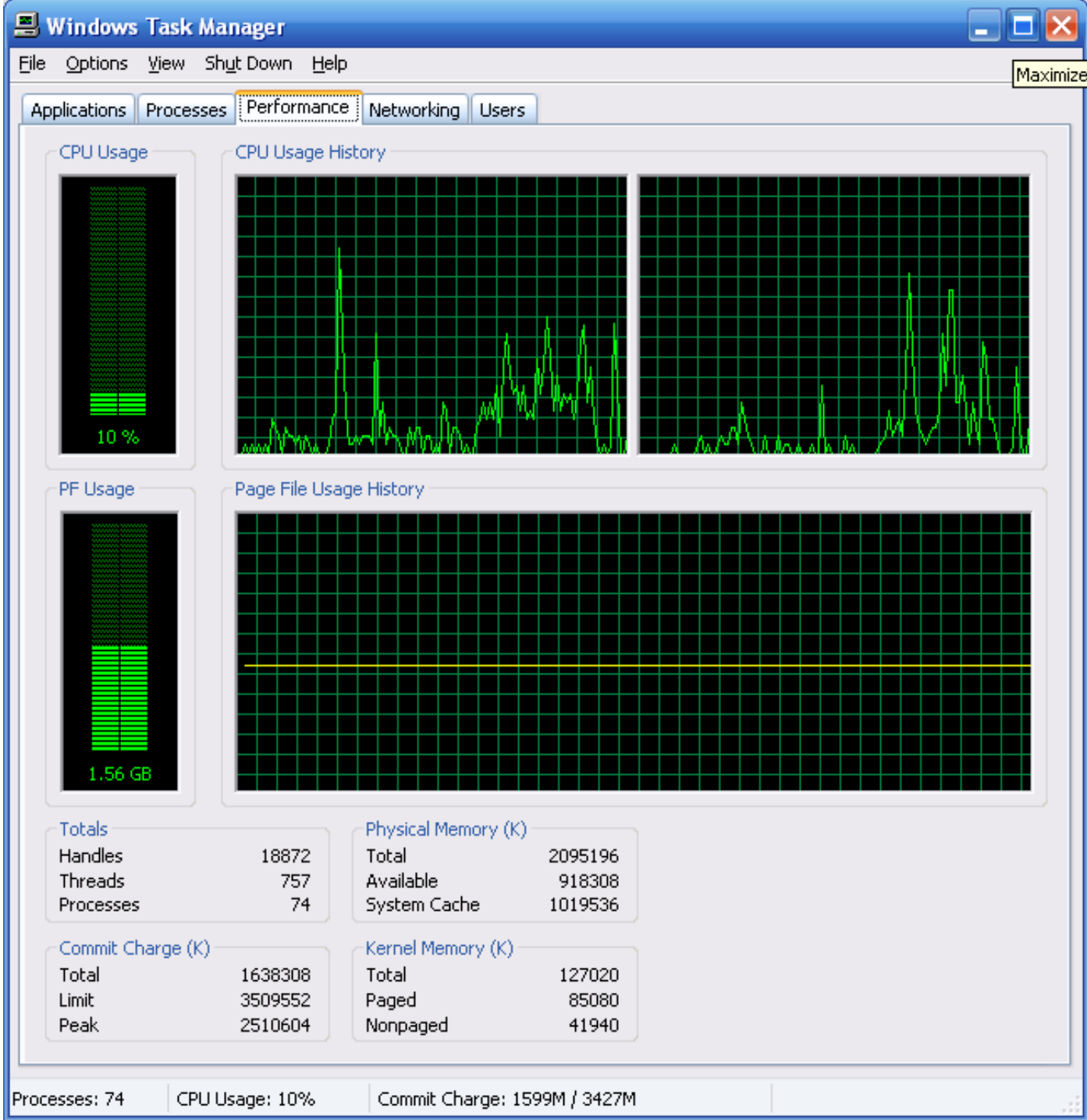
Windows Task Manager Help



Jozo

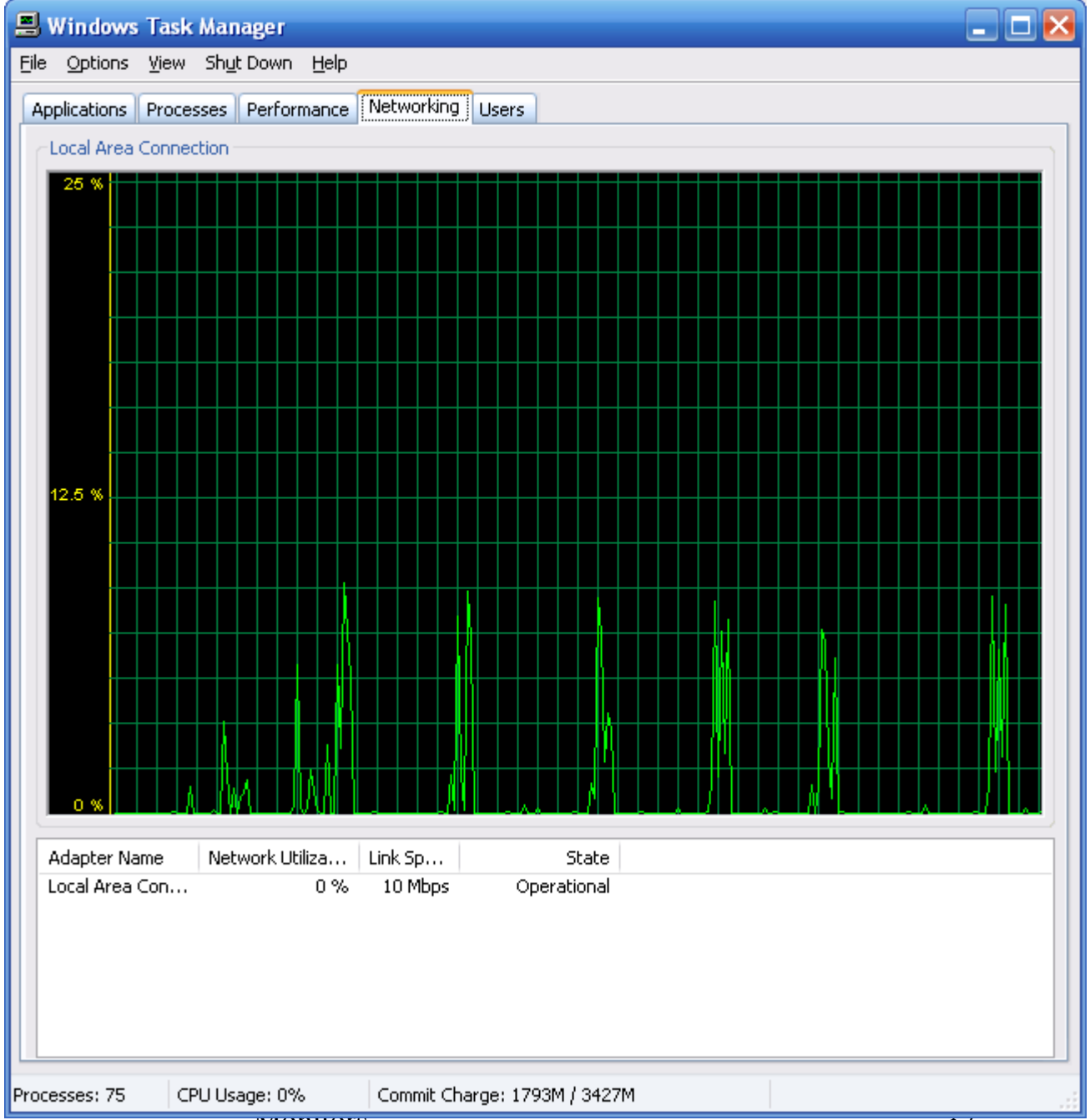

Windows Task Manager
File Options View Windows Shut Down Help
Applications Processes Performance Networking Users
Task
Status
CPUID - System & hardware benchmark, monitoring, reporting - Google Chrome
Running
Microsoft PowerPoint - [8_Performance Evaluation Tools.ppt]
Running
Start Menu
Running
cpuz
Running
Shared Documents
Running
Random numbers and simulation
Running
End Task
Switch To
New Task...
Processes: 74
CPU Usage: 0%
Commit Charge: 1611M / 3427M


Windows Task Manager
File Options View Shut Down Help
Applications Processes Performance Networking Users
Image Name User Name Session ID CPU Mem Usage
chrome.exe Jozo Dujmovic 0 00 11,276 K
chrome.exe Jozo Dujmovic 0 00 84,304 K
chrome.exe Jozo Dujmovic 0 00 11,308 K
chrome.exe Jozo Dujmovic 0 00 68,164 K
agentsvr.exe Jozo Dujmovic 0 00 296 K
AdobeARM.exe Jozo Dujmovic 0 00 3,416 K
chrome.exe Jozo Dujmovic 0 00 12,976 K
LWS.exe Jozo Dujmovic 0 00 6,556 K
hpqtra08.exe Jozo Dujmovic 0 00 3,812 K
chrome.exe Jozo Dujmovic 0 00 95,672 K
jusched.exe Jozo Dujmovic 0 00 5,120 K
Newsflsh.exe Jozo Dujmovic 0 00 4,072 K
MSASCui.exe Jozo Dujmovic 0 00 9,176 K
shstat.exe Jozo Dujmovic 0 00 724 K
alg.exe LOCAL SERVICE 0 00 1,372 K
sprtcmd.exe Jozo Dujmovic 0 00 1,992 K
acrotray.exe Jozo Dujmovic 0 00 1,608 K
ehmsas.exe Jozo Dujmovic 0 00 776 K
DLACTRLW.EXE Jozo Dujmovic 0 00 2,660 K
issch.exe Jozo Dujmovic 0 00 864 K
dllhost.exe SYSTEM 0 00 2,232 K
stsystra.exe Jozo Dujmovic 0 00 1,308 K
agent.exe Jozo Dujmovic 0 00 1,596 K
ehtray.exe Jozo Dujmovic 0 00 748 K
Vid.exe Jozo Dujmovic 0 00 33,912 K
taskmgr.exe Jozo Dujmovic 0 00 5,688 K
COCIManager.exe Jozo Dujmovic 0 00 2,224 K
SSScheduler.exe Jozo Dujmovic 0 00 3,488 K
GoogleToolbarNot... Jozo Dujmovic 0 00 728 K
McTray.exe Jozo Dujmovic 0 00 484 K
mcshield.exe SYSTEM 0 00 44,884 K
DSAgnt.exe Jozo Dujmovic 0 00 14,416 K
explorer.exe Jozo Dujmovic 0 00 133,452 K
DLG.exe Jozo Dujmovic 0 00 1,452 K
Show processes from all users
End Process
Processes: 74 CPU Usage: 0% Commit Charge: 1610M / 3427M



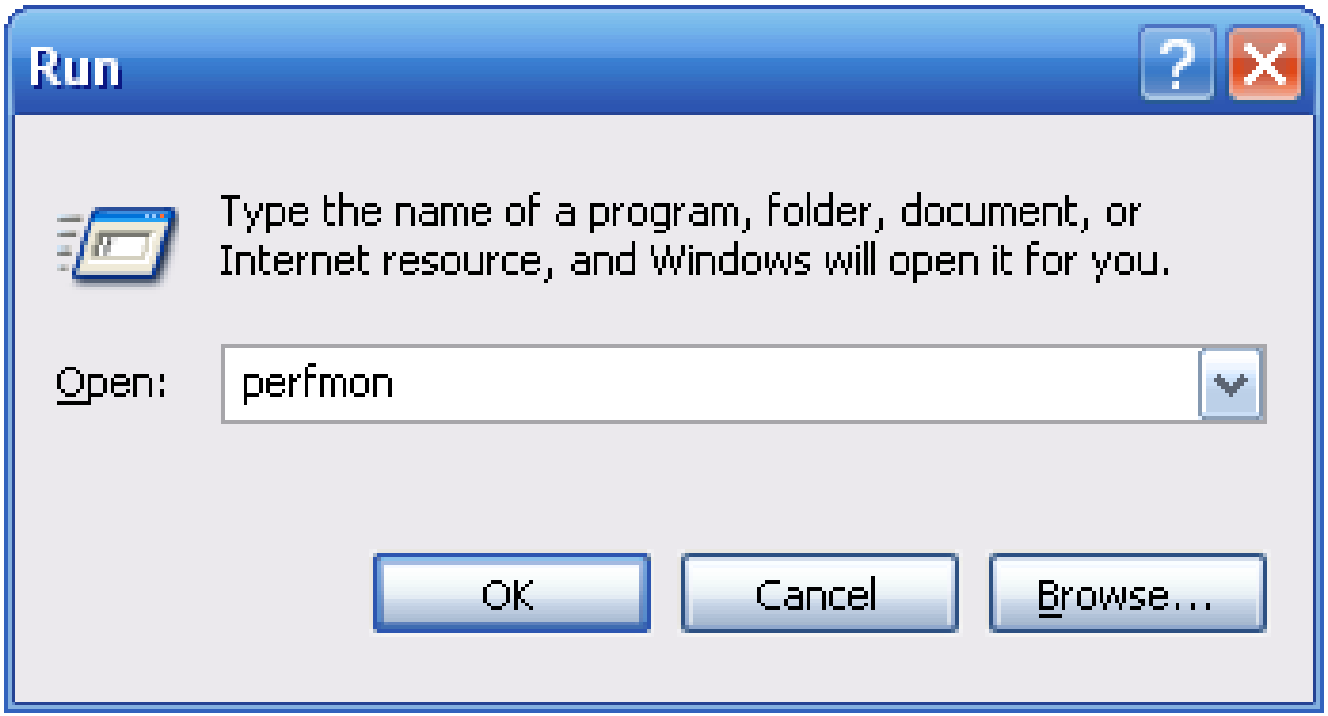
Jozo Dujmović

Each pulse shows the network activity for loading an e-mail

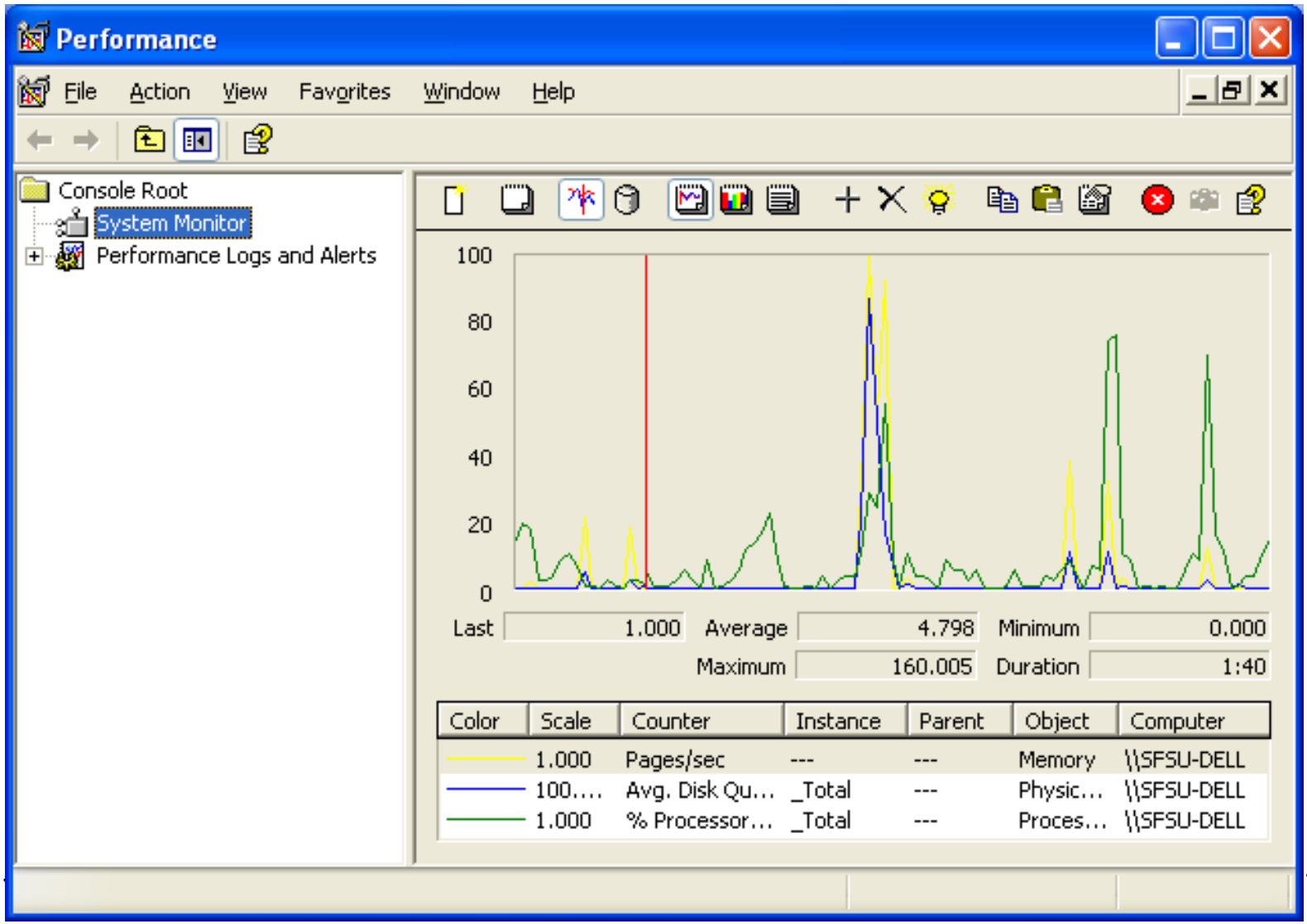


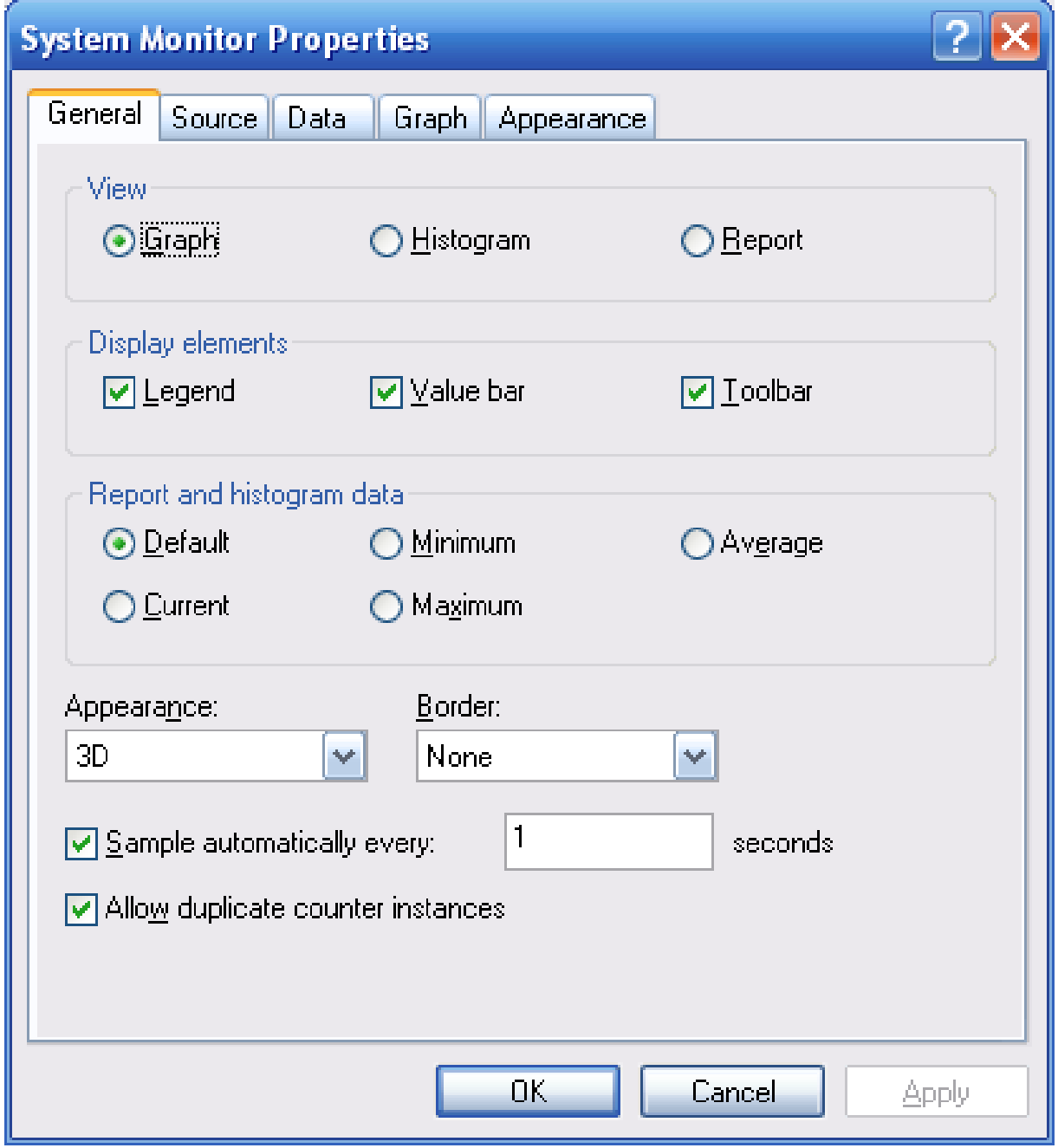
Win XP Performance Monitor

- Start > Run perfmon > OK



perfmon - Win XP Performance Monitor




System Monitor Properties
General
Source
Data
Graph
Appearance
View
Graph
Histogram
Report
Display elements
Legend
Value bar
Toolbar
Report and histogram data
Default
Minimum
Average
Current
Maximum
Appearance:
3D
Border:
None
Sample automatically every:
1
seconds
Allow duplicate counter instances
OK
Cancel
Apply

Add Counters
Use local computer counters
Select counters from computer:
\\XPS400
Performance object:
Processor
All counters
All instances
Select counters from list
Select instances from list:
% Idle Time
% Interrupt Time
% Privileged Time
% Processor Time
% User Time
C1 Transitions/sec
C2 Transitions/sec
_Total
0
1
Add
Explain
Close

% User Time is the percentage of elapsed time the processor spends in the user mode. User mode is a restricted processing mode designed for applications, environment subsystems, and integral subsystems. The alternative, privileged mode, is designed for operating system components and allows direct access to hardware and all memory. The operating system switches application threads to privileged mode to access operating system services. This counter displays the average busy time as a percentage of the sample time.

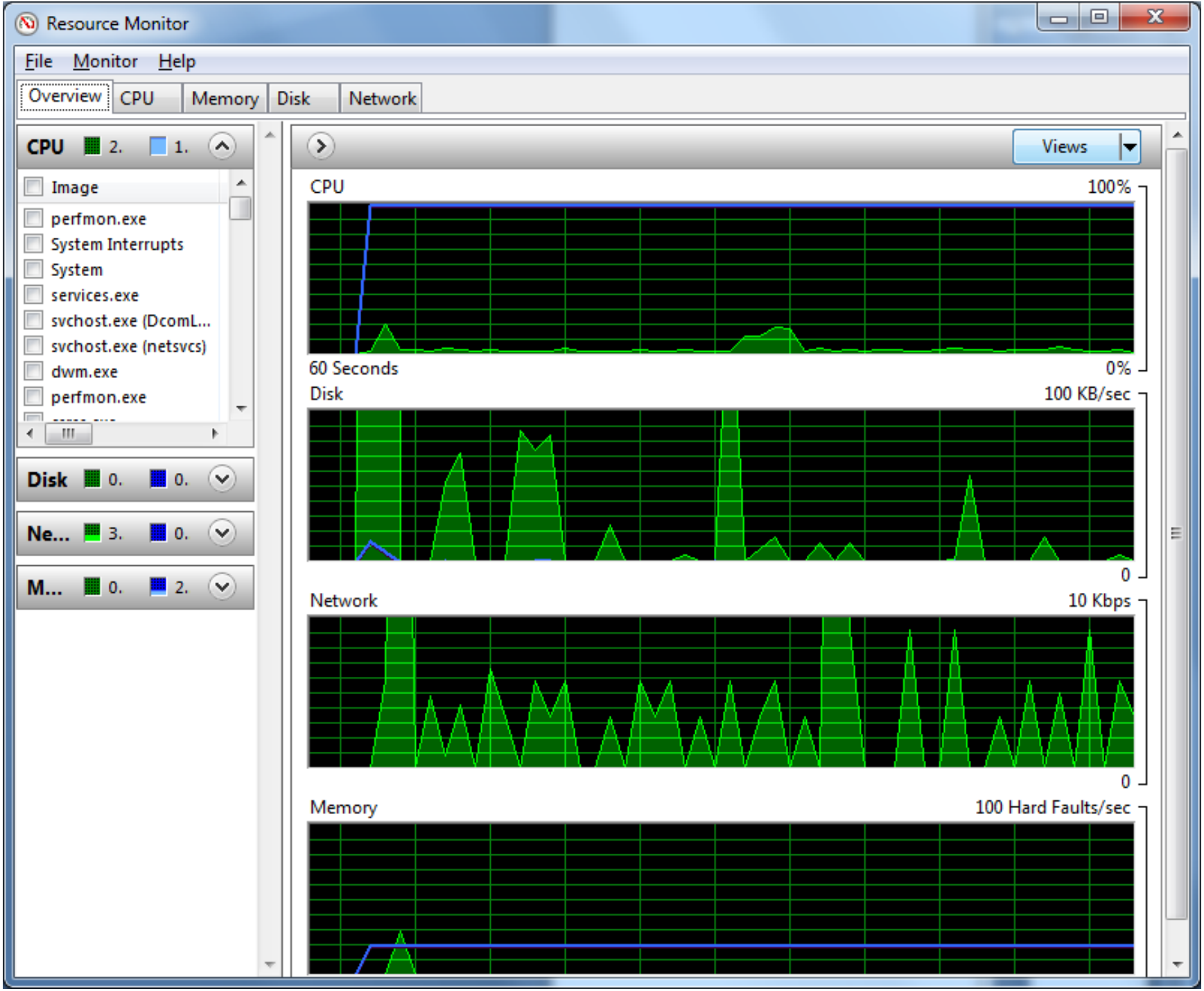
% Privileged Time is the percentage of elapsed time that the process threads spent executing code in privileged mode. When a Windows system service in called, the service will often run in privileged mode to gain access to system-private data. Such data is protected from access by threads executing in user mode.

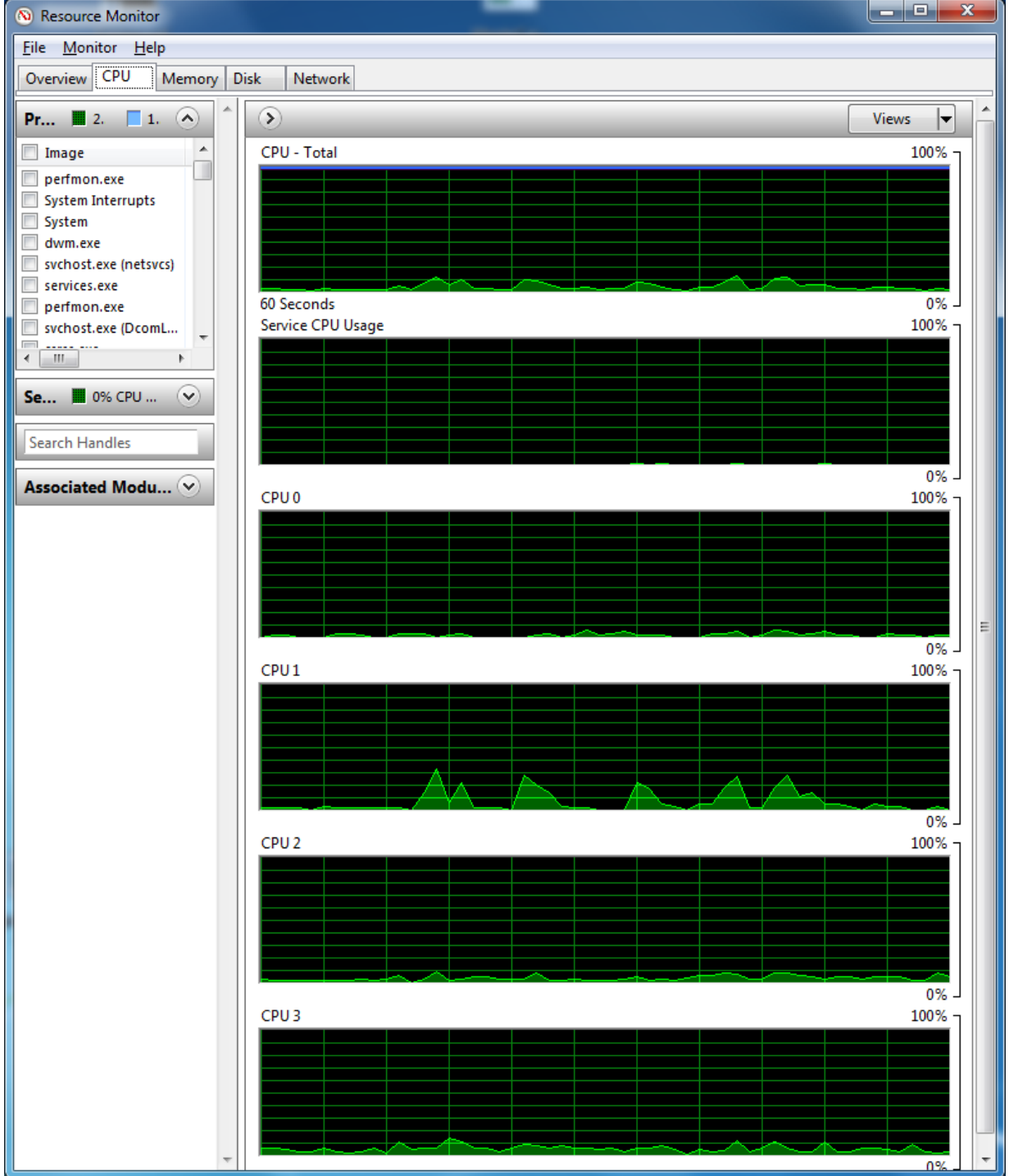
% Interrupt Time is the time the processor spends receiving and servicing hardware interrupts during sample intervals. This value is an indirect indicator of the activity of devices that generate interrupts, such as the system clock, the mouse, disk drivers, data communication lines, network interface cards and other peripheral devices. These devices normally interrupt the processor when they have completed a task or require attention. Normal thread execution is suspended during interrupts. Most system clocks interrupt the processor every 10 milliseconds, creating a background of interrupt activity. suspends normal thread execution during interrupts. This counter displays the average busy time as a percentage of the sample time.

% Processor Time is the percentage of elapsed time that the processor spends to execute a non-Idle thread. It is calculated by measuring the duration of the idle thread is active in the sample interval, and subtracting that time from interval duration. (Each processor has an idle thread that consumes cycles when no other threads are ready to run). This counter is the primary indicator of processor activity, and displays the average percentage of busy time observed during the sample interval. It is calculated by monitoring the time that the service is inactive, and subtracting that value from 100%.

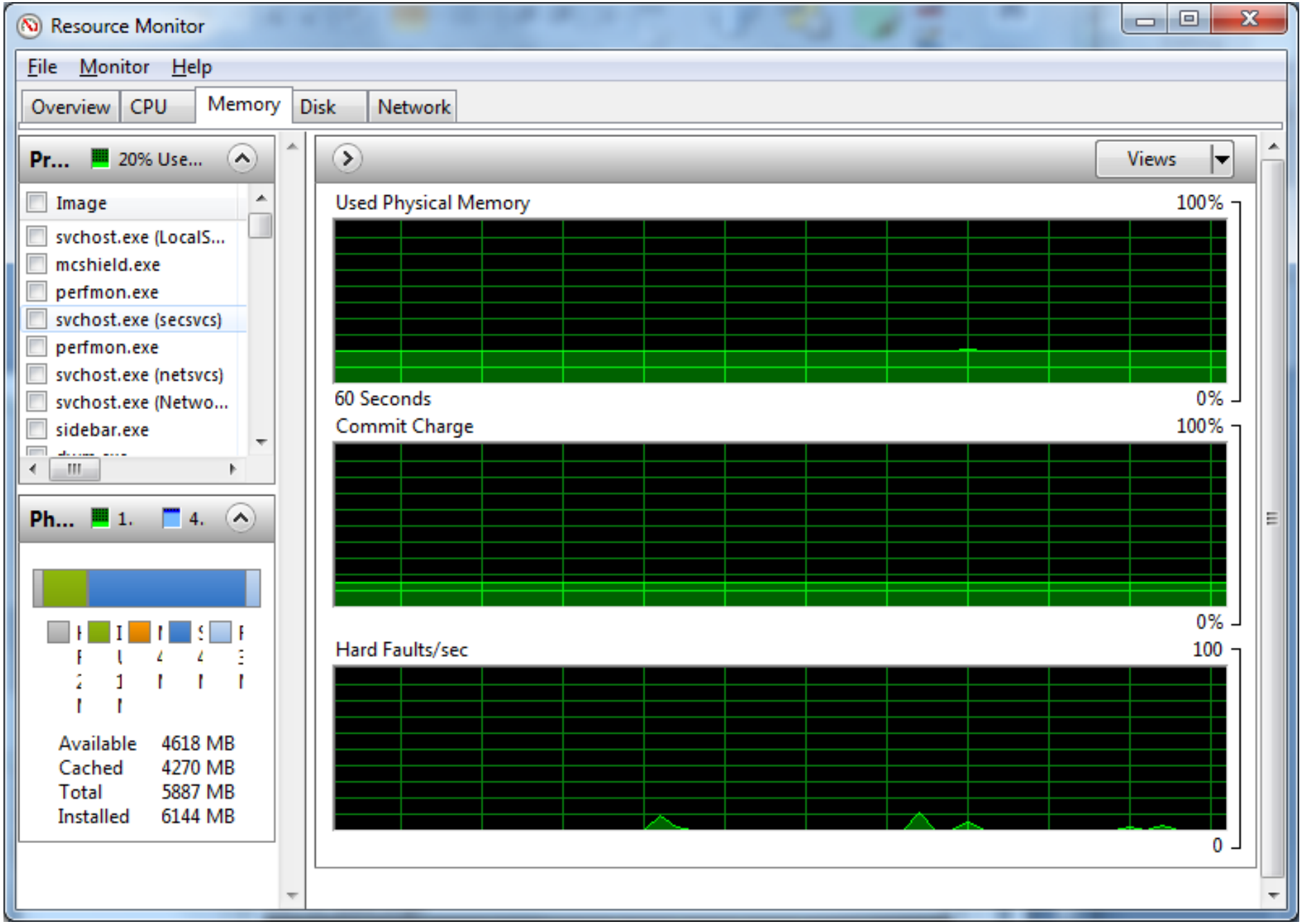
Windows 7 Resource Monitor

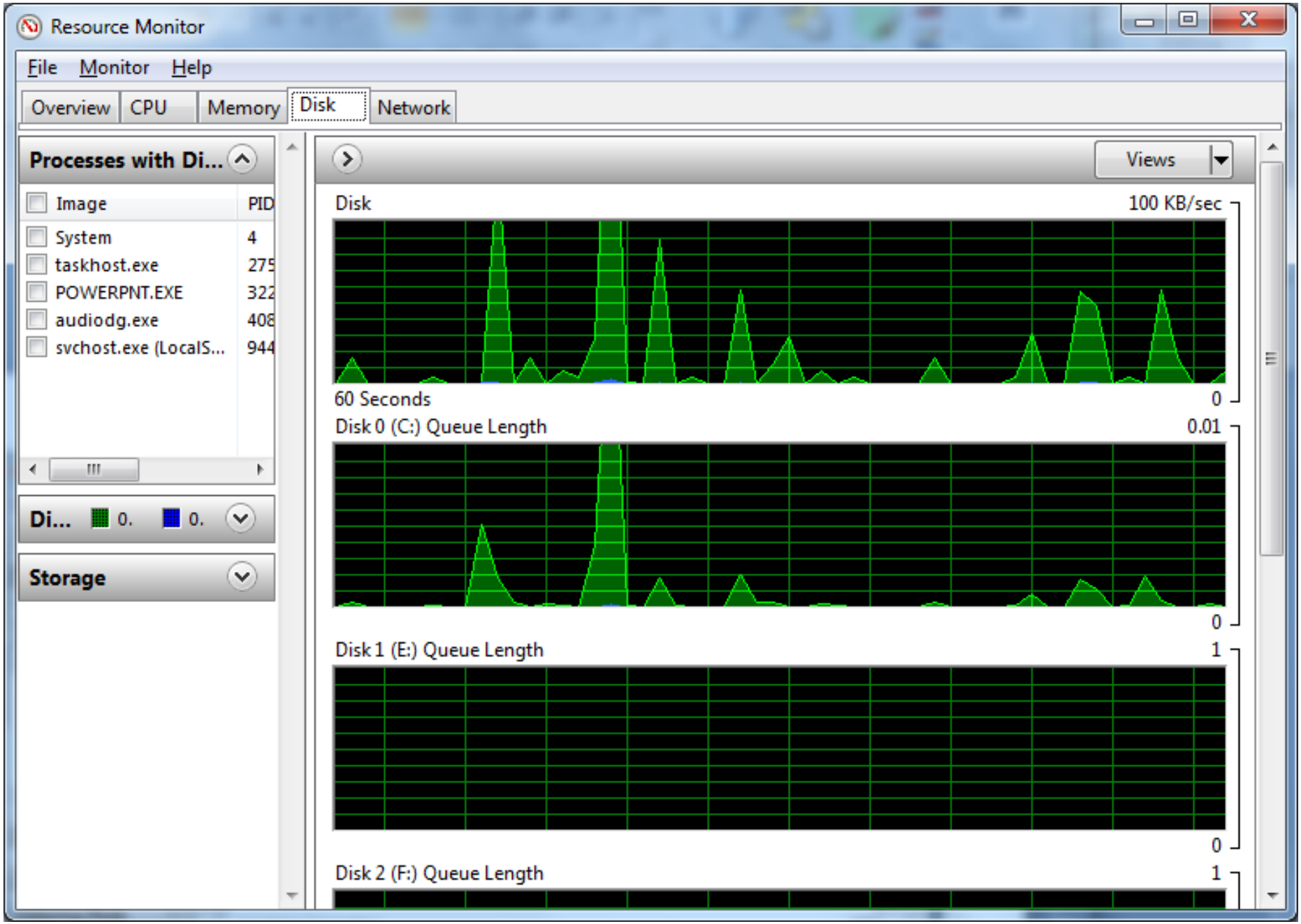
“Windows Resource Monitor is a system tool that allows you to view information about the use of hardware (CPU, memory, disk, and network) and software (file handles and modules) resources in real time. You can filter the results according to specific processes or services that you want to monitor. In addition, you can use Resource Monitor to start, stop, suspend, and resume processes and services, and to troubleshoot when an application does not respond as expected.”

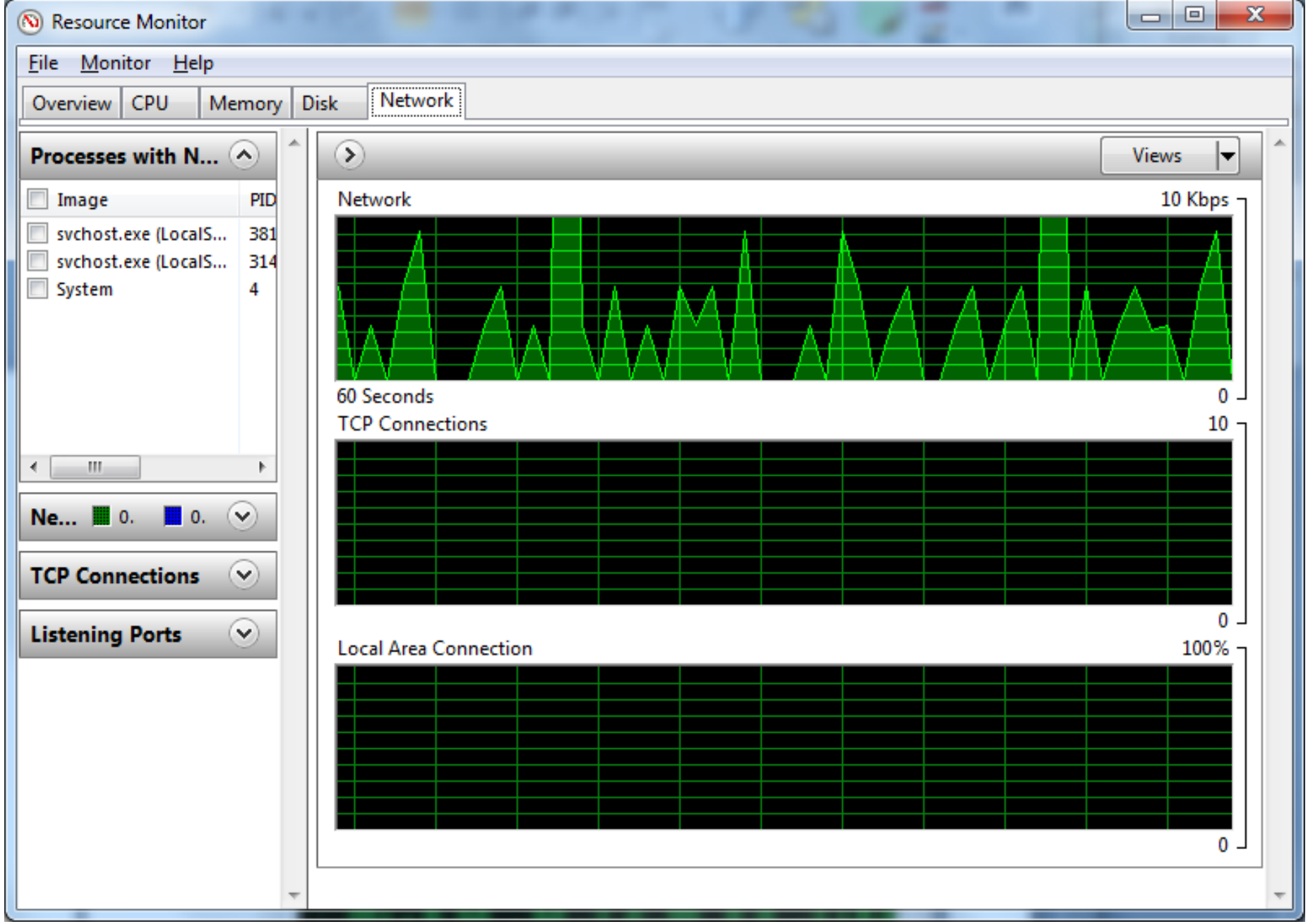

Resource Monitor
File Monitor Help
Overview CPU Memory Disk Network
CPU 2. 1.
Image
perfmon.exe
System Interrupts
System
services.exe
svchost.exe (DcomL...
svchost.exe (netsvcs)
dwm.exe
perfmon.exe
Disk 0. 0.
Ne... 3. 0.
M... 0. 2.
Views
CPU
100%
60 Seconds
0%
Disk
100 KB/sec
0
Network
10 Kbps
0
Memory
100 Hard Faults/sec



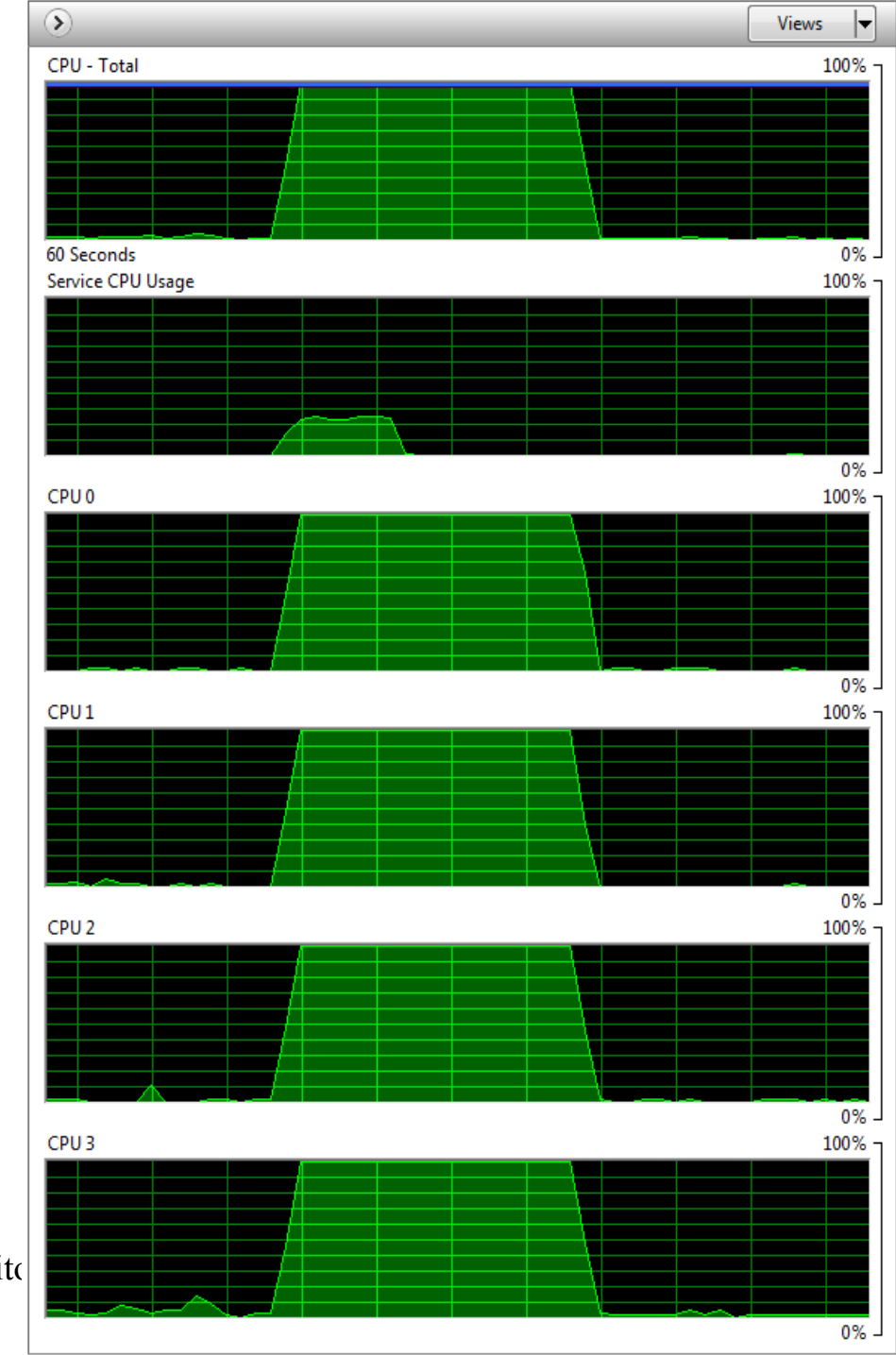
Jozo Dujmović


Resource Monitor
File Monitor Help
Overview CPU Memory Disk Network
Pr... 20% Use...
Image
svchost.exe (LocalS...
mcshield.exe
perfmon.exe
svchost.exe (secsvcs)
perfmon.exe
svchost.exe (netsvcs)
svchost.exe (Netwo...
sidebar.exe
Ph... 1. 4.
Available 4618 MB
Cached 4270 MB
Total 5887 MB
Installed 6144 MB
Views
Used Physical Memory
100%
60 Seconds
0%
Commit Charge
100%
0%
Hard Faults/sec
100
0

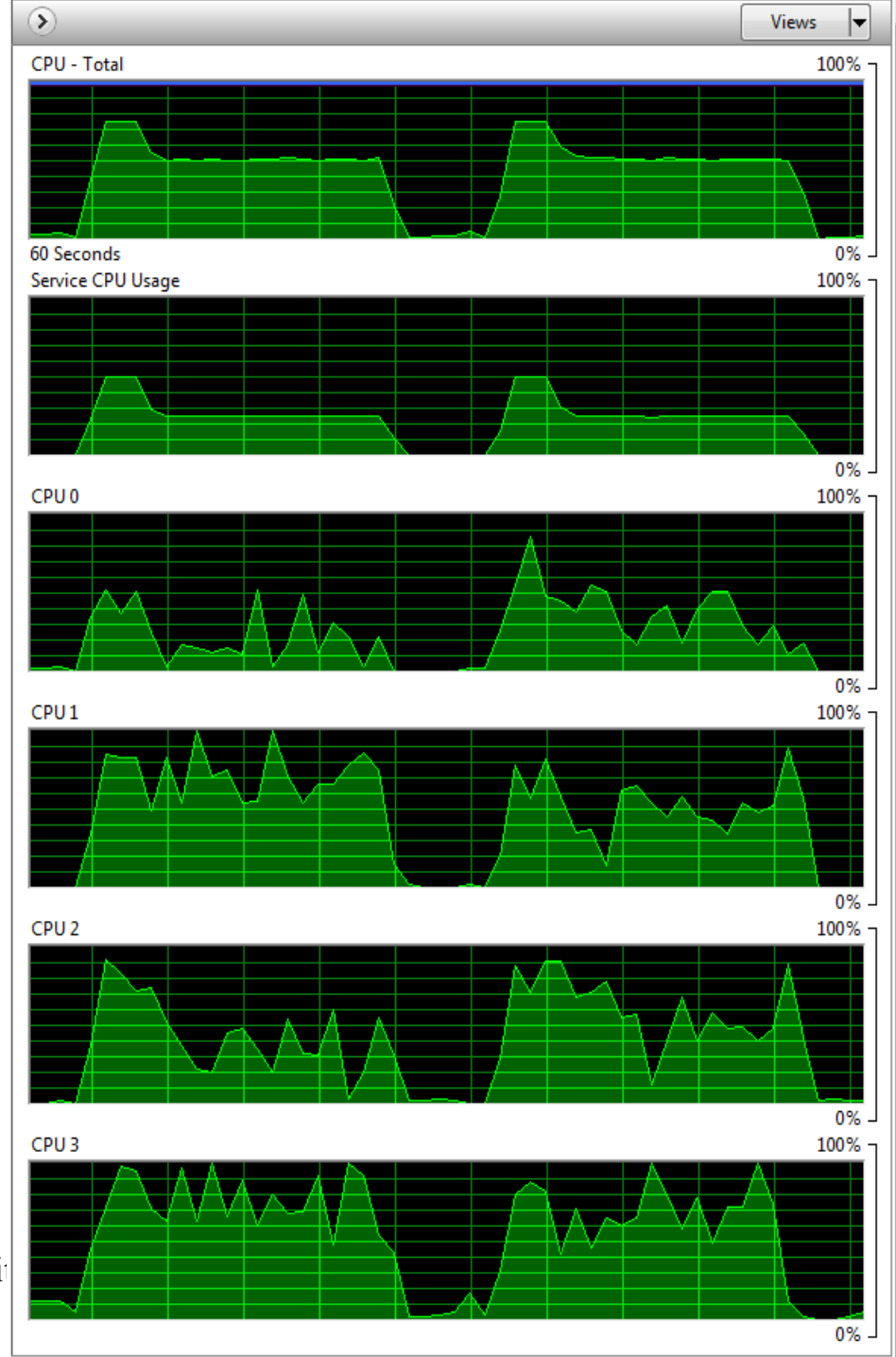

Resource Monitor
File Monitor Help
Overview CPU Memory Disk Network
Processes with Di...
Image PID
System 4
taskhost.exe 275
POWERPNT.EXE 322
audiodg.exe 408
svchost.exe (LocalS... 944
Di... 0. 0.
Storage
Views
Disk
100 KB/sec
60 Seconds
0
Disk 0 (C:) Queue Length
0.01
0
Disk 1 (E:) Queue Length
1
0
Disk 2 (F:) Queue Length
1


Resource Monitor
File Monitor Help
Overview CPU Memory Disk Network
Processes with N...
Image PID
svchost.exe (LocalS... 381
svchost.exe (LocalS... 314
System 4
Ne... 0. 0.
TCP Connections
Listening Ports
Views
Network 10 Kbps
60 Seconds 0
TCP Connections 10
0
Local Area Connection 100%
0

Parallel execution of four SpeedMark benchmarks

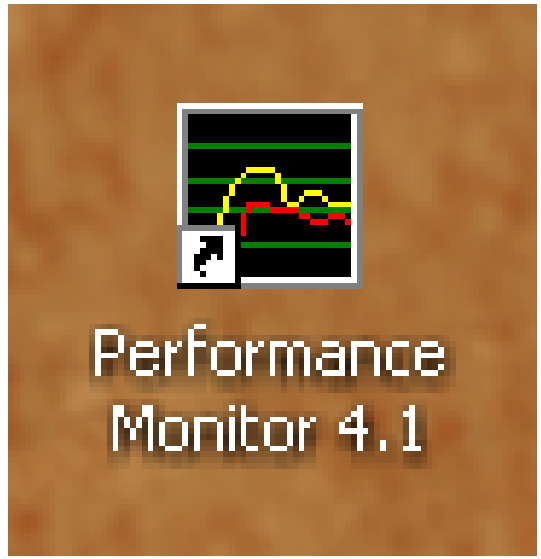


Two SpeedMark benchmarks executed two times



Hexagora Performance Monitor

- Free product (freeware)
- Version 4 (currently 4.1)
- Platform: Windows XP, Vista, Win7
- Size: small (zipped package: 300KB)
- Location: http://www.hexagora.com/en_dw_davperf.asp
- Author: Lorenzi Davide
- Country: Italy

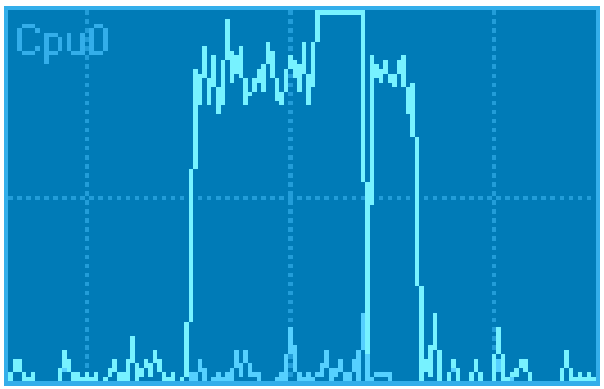


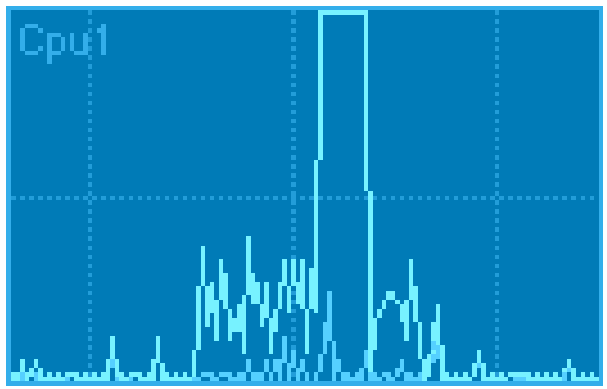
About Performance Monitor
Performance Monitor
Version 4.1.0
This program shows Processor, Memory, Disk and Network utilization on Windows 2000, XP+ systems.
Copyright 2002-2011 by Lorenzi Davide.
http://www.hexagora.com
OK

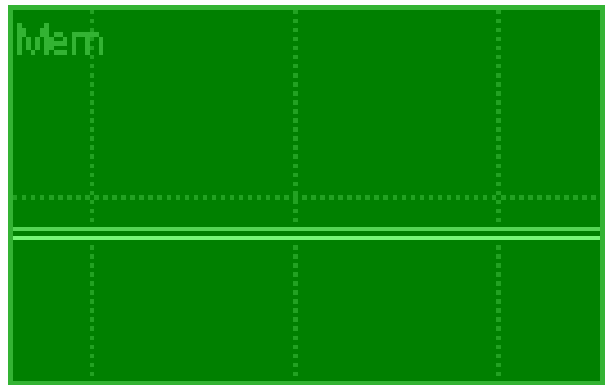
Measured indicators

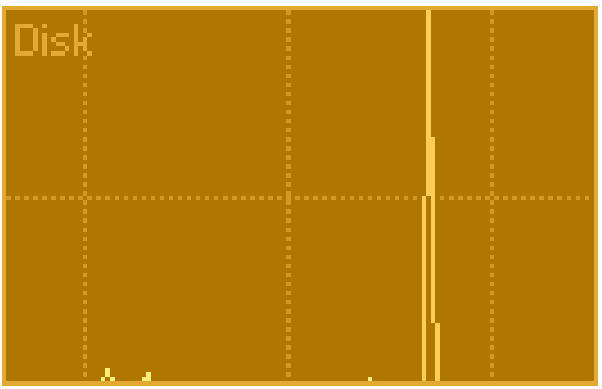
- CPU utilization separately for each core
- Memory consumption
- Disk activity
- Network activity
- Each indicator is shown in a separate small graphs that are removable and anchorable on the screen

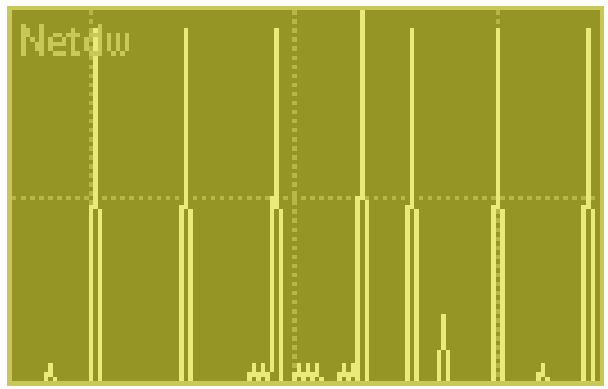
Execution of SpeedMark benchmark

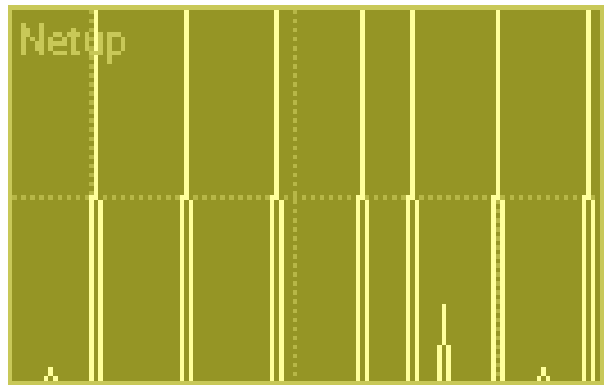




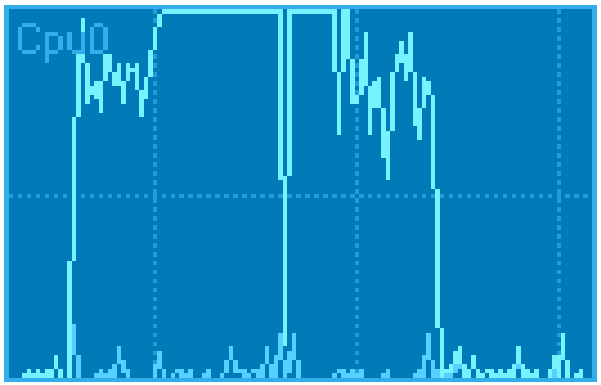


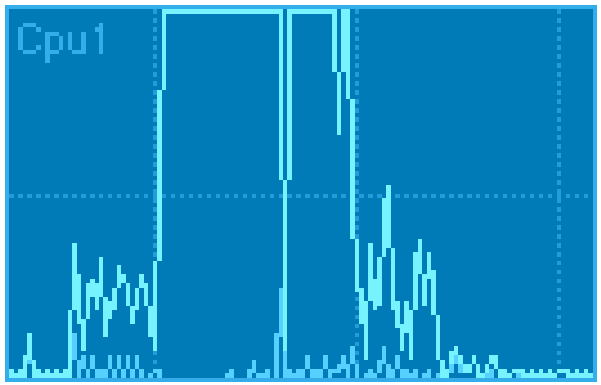


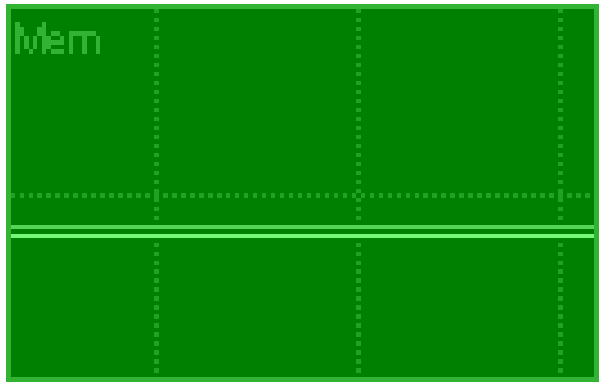


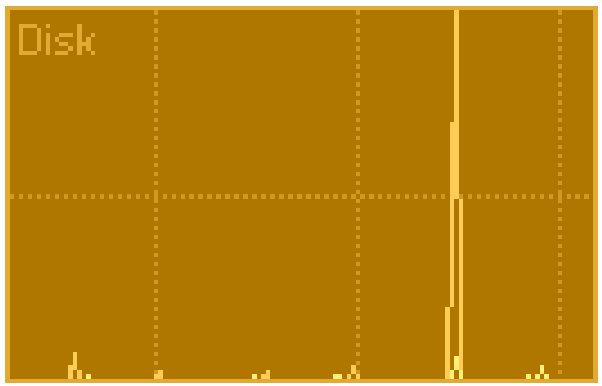


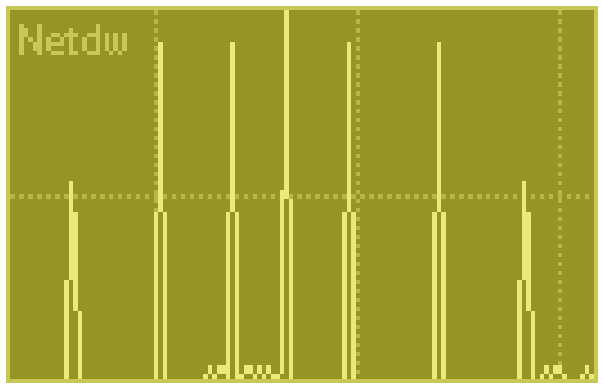
Execution of 2 SpeedMark Benchmarks

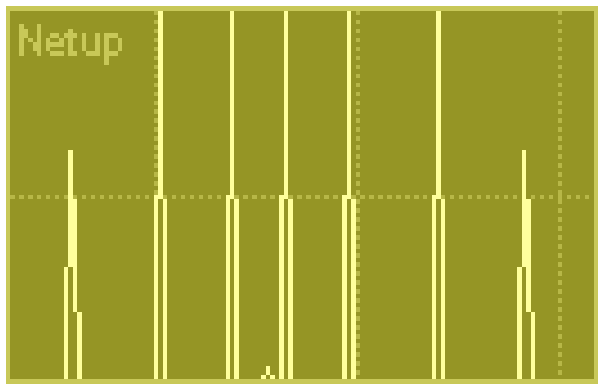






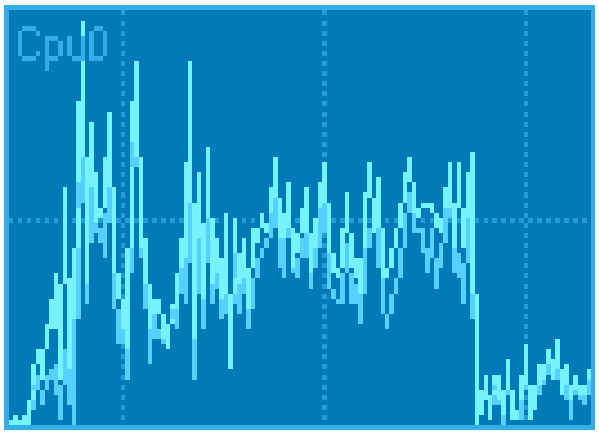


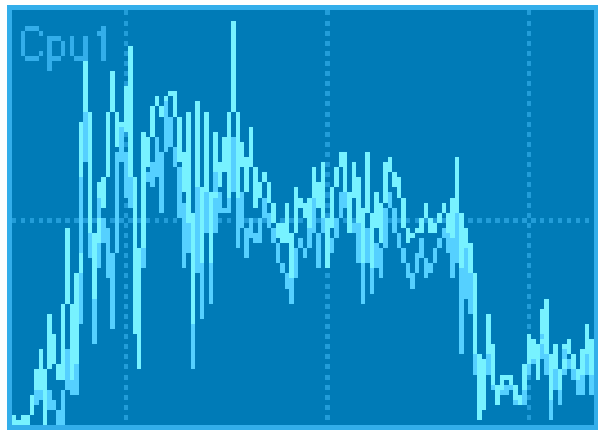




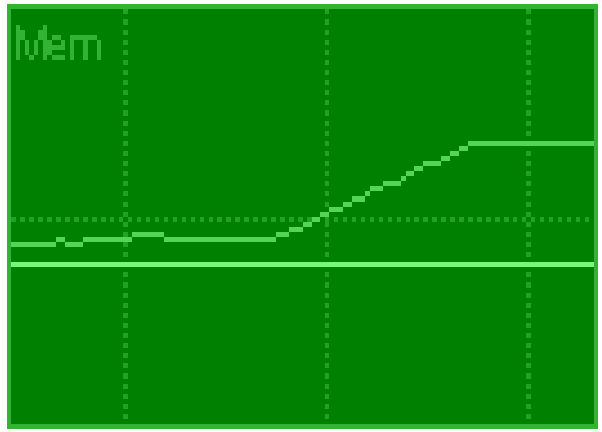
Execution of DiskMark Benchmark

High activity of both CPU's for file processing in cache memory

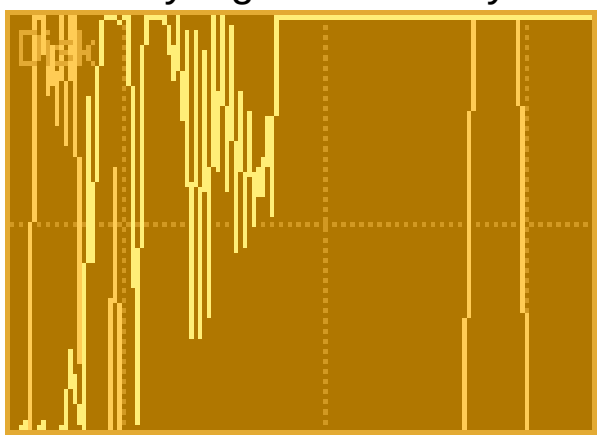


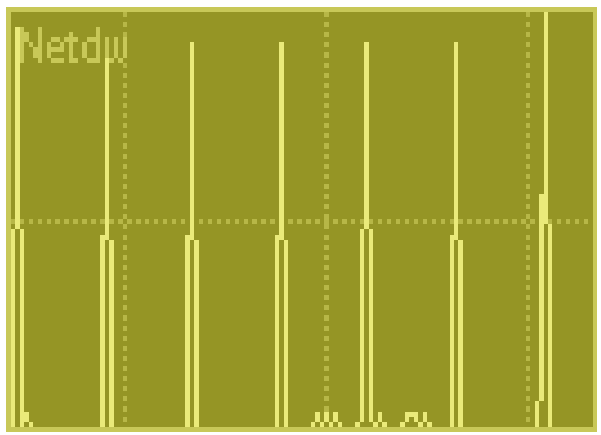


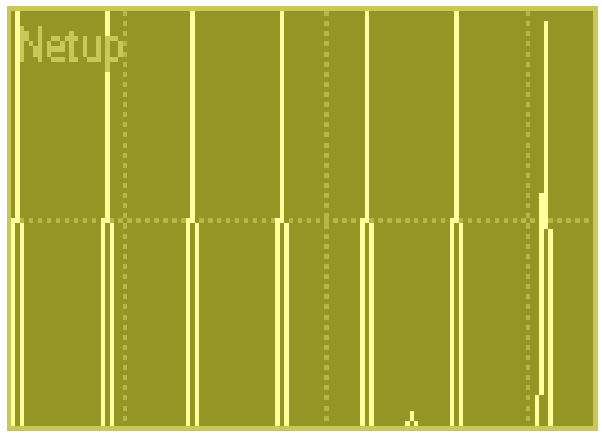
Loading of memory cache

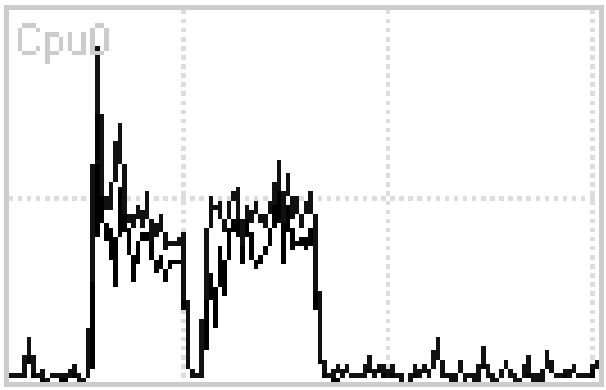


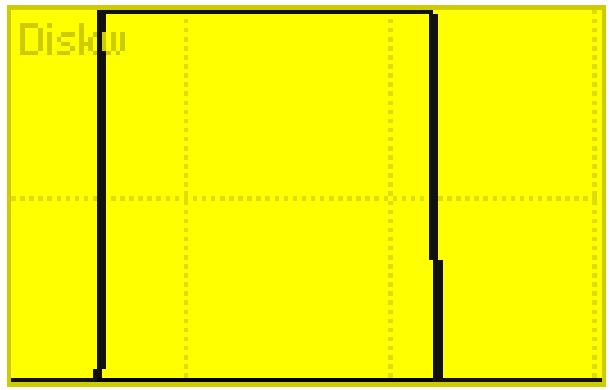
Very high disk activity

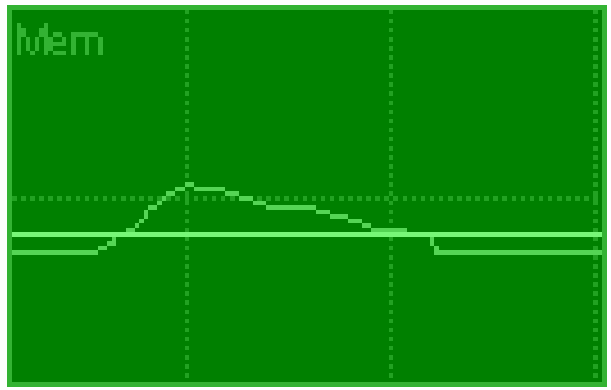


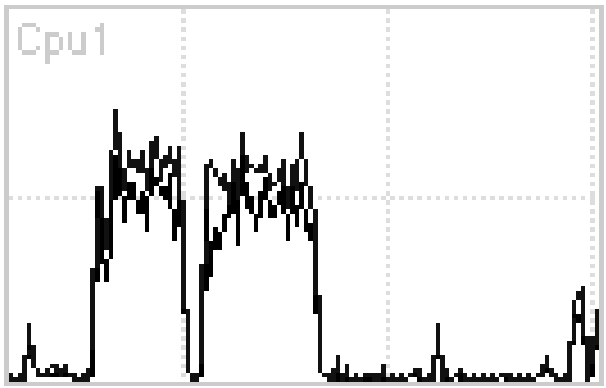




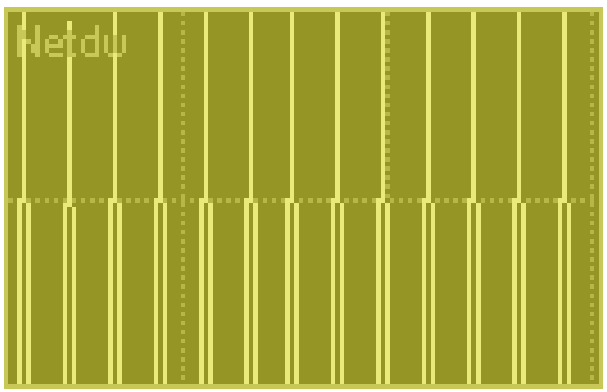


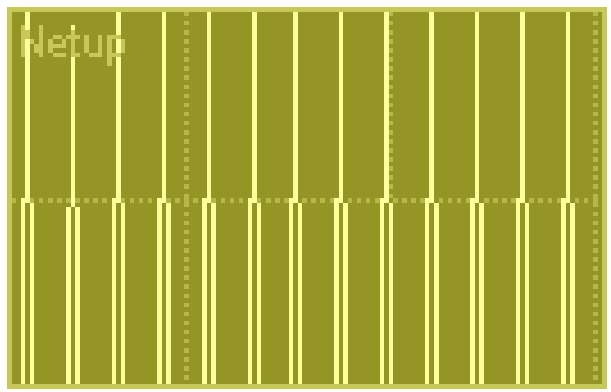




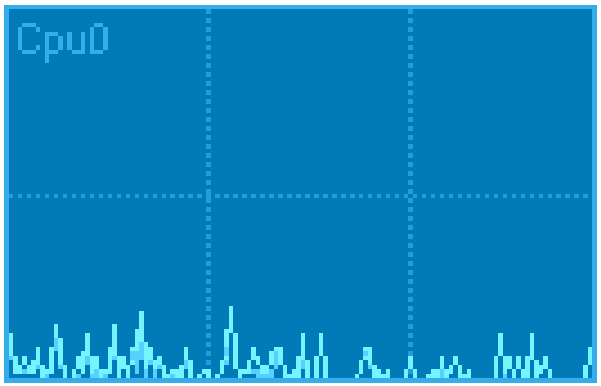


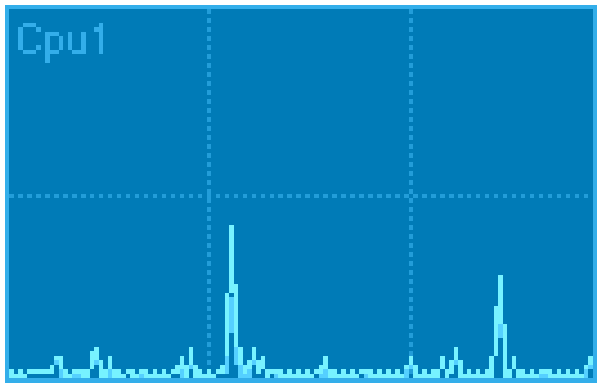
Using memory as a cache for disk write operations

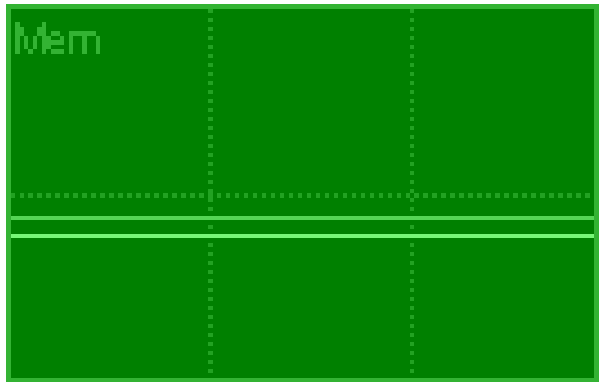


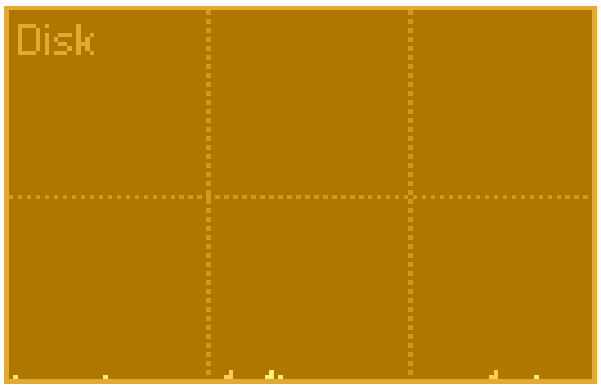


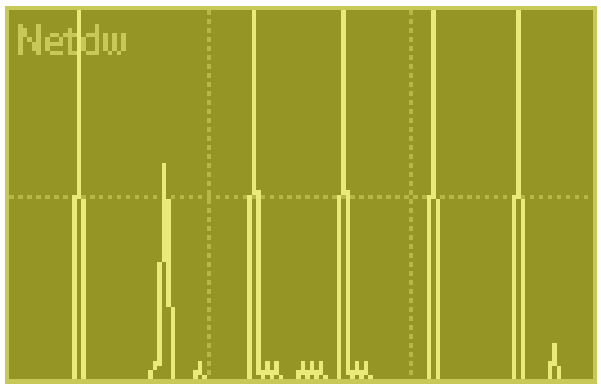
Characteristic low activity pattern

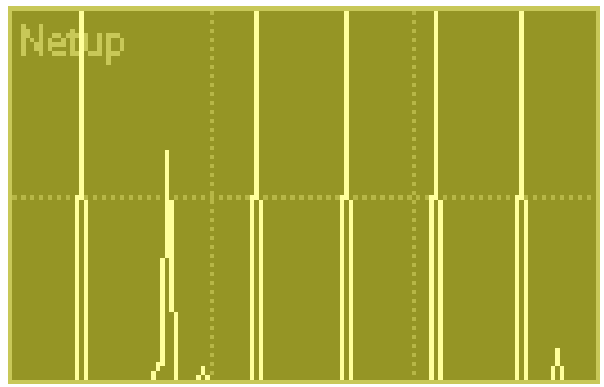






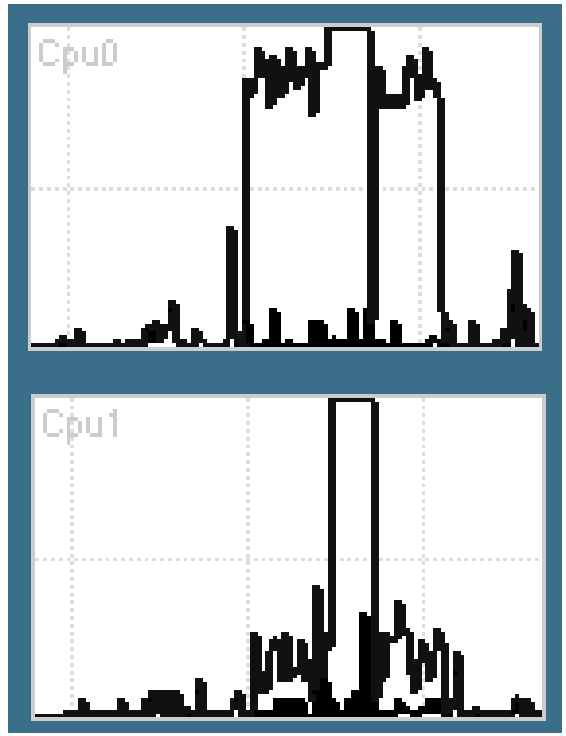


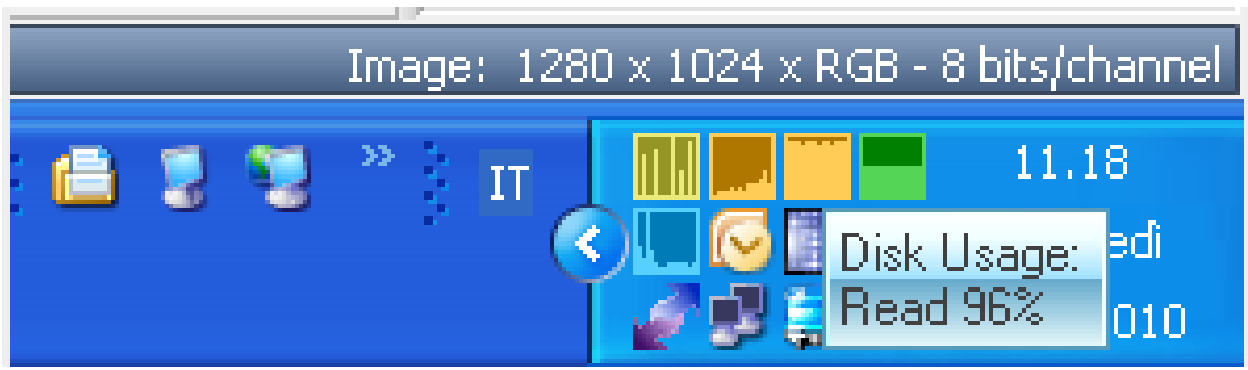




Advantages

- Portability
- Adjustment of background/ foreground colors
- Left mouse click on the graph shows numeric results
- Adjustable graph size
- Can run in the tray area:





Numerical results

These results are temporarily available when users brings mouse over a selected graph. Unfortunately, these results cannot be recorded in a file.

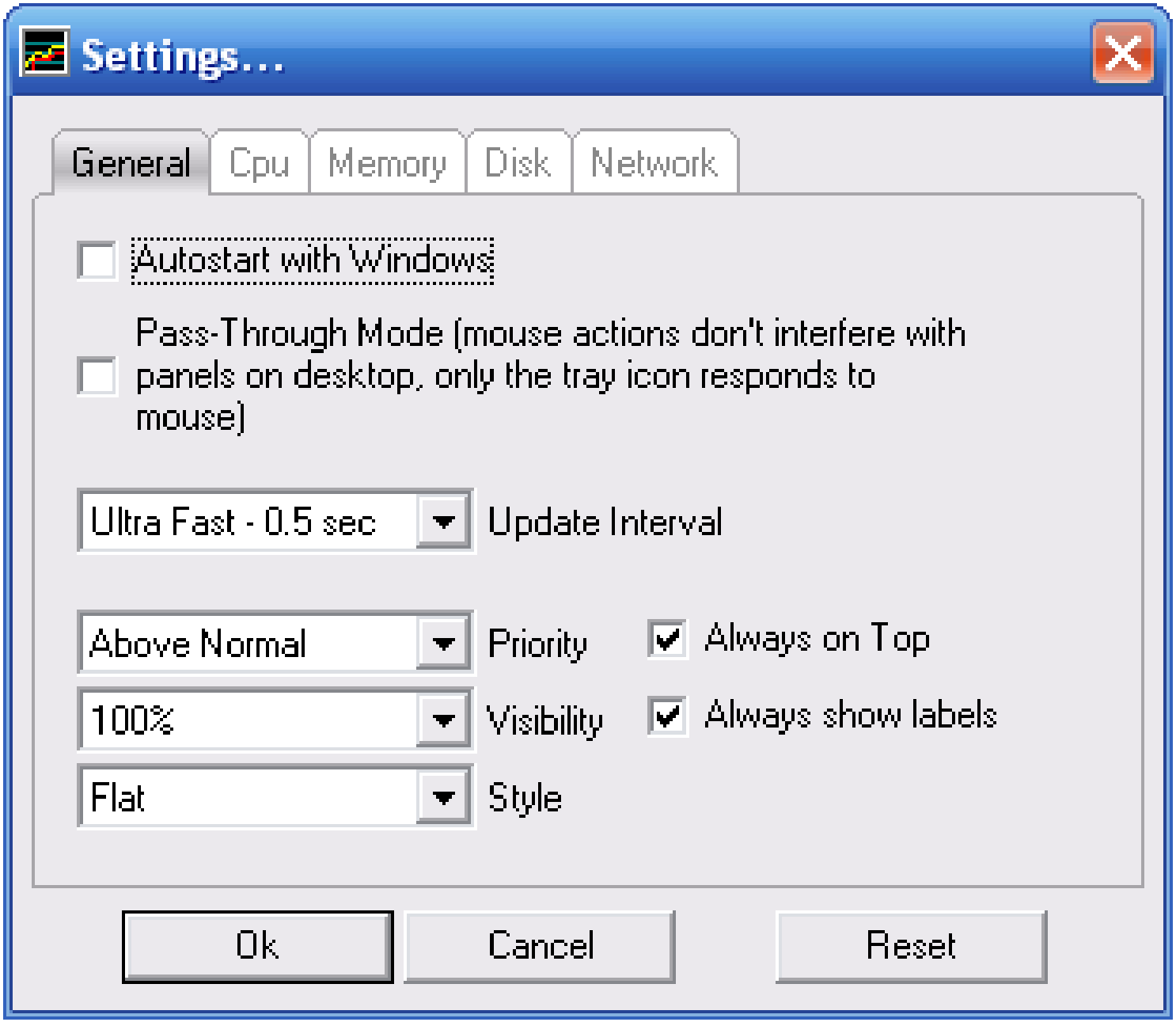
- CPU (each core)
  - Kernel [%]
  - User [%]
- Memory
  - Physical memory (absolute and %)
  - Paged memory (absolute and %)
- Disk
  - Read [%]
  - Write [%]
- Network
  - Received KB/sec
  - Max received KB/sec
  - Sent KB/sec
  - Max sent KB/sec

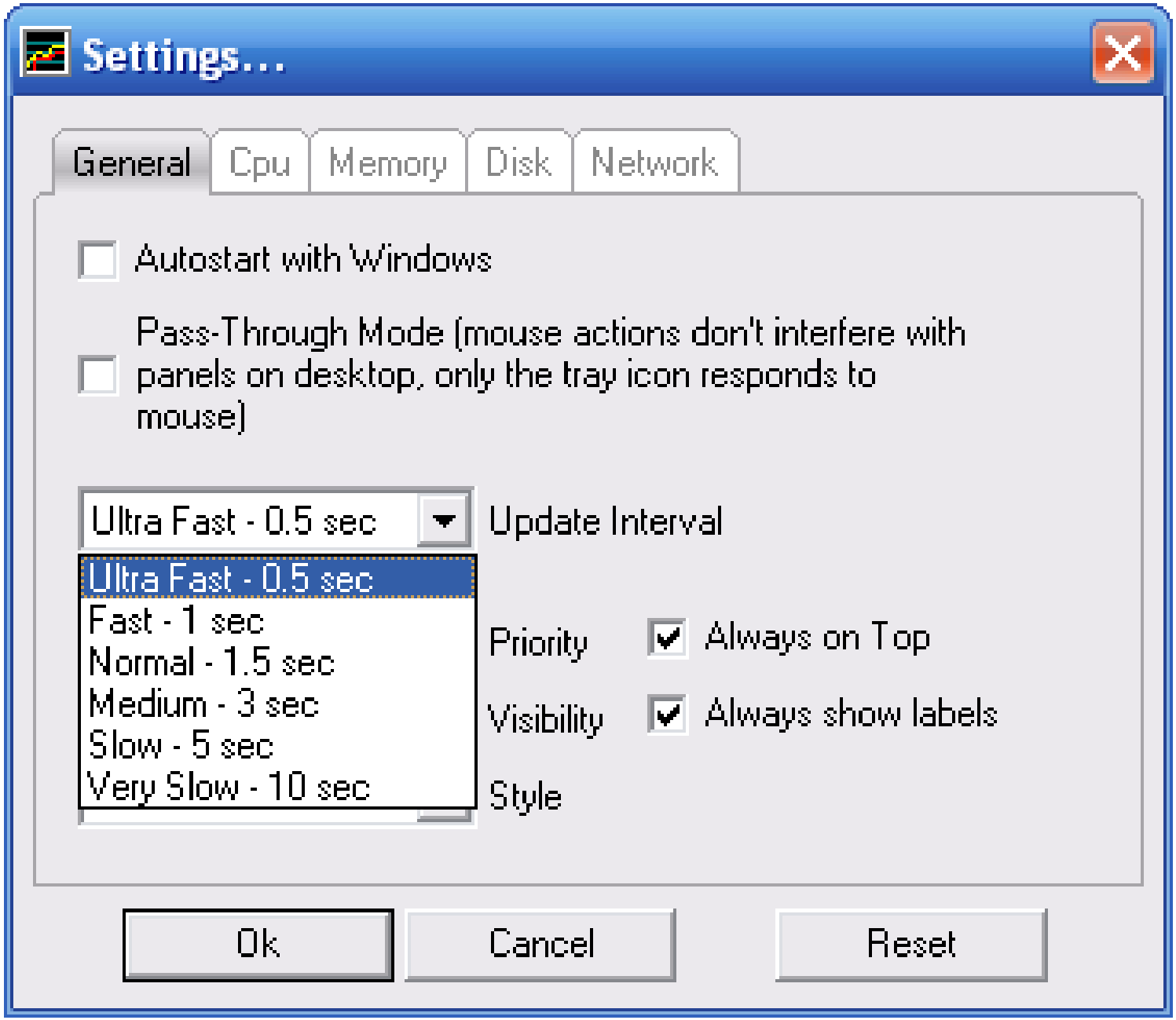
Disadvantages

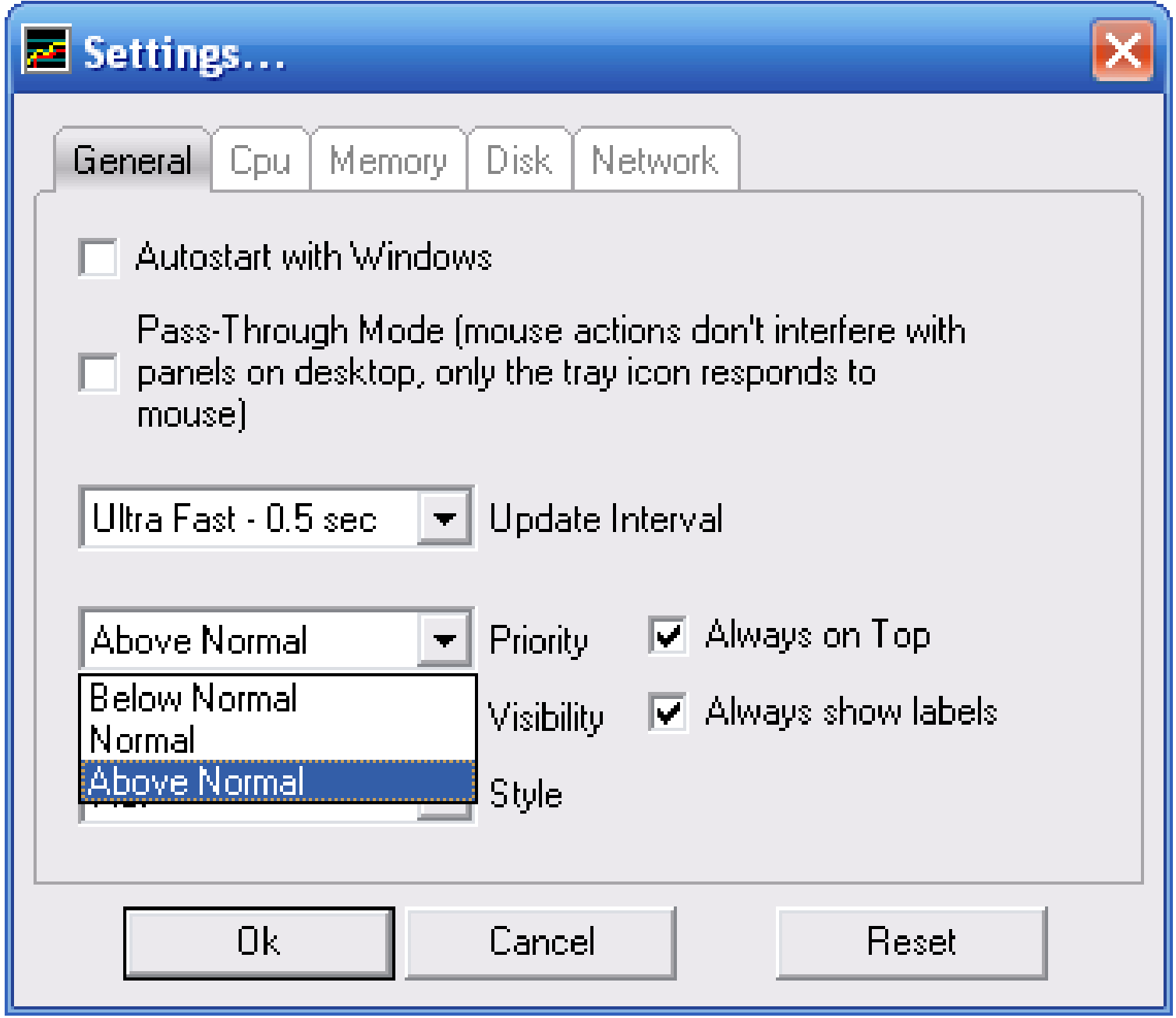
- Provides predominantly qualitative results
- Graphs are too small and not very precise
- Default colors are not attractive
- Help is rather modest
- Results of measurement cannot be saved in a file for later processing

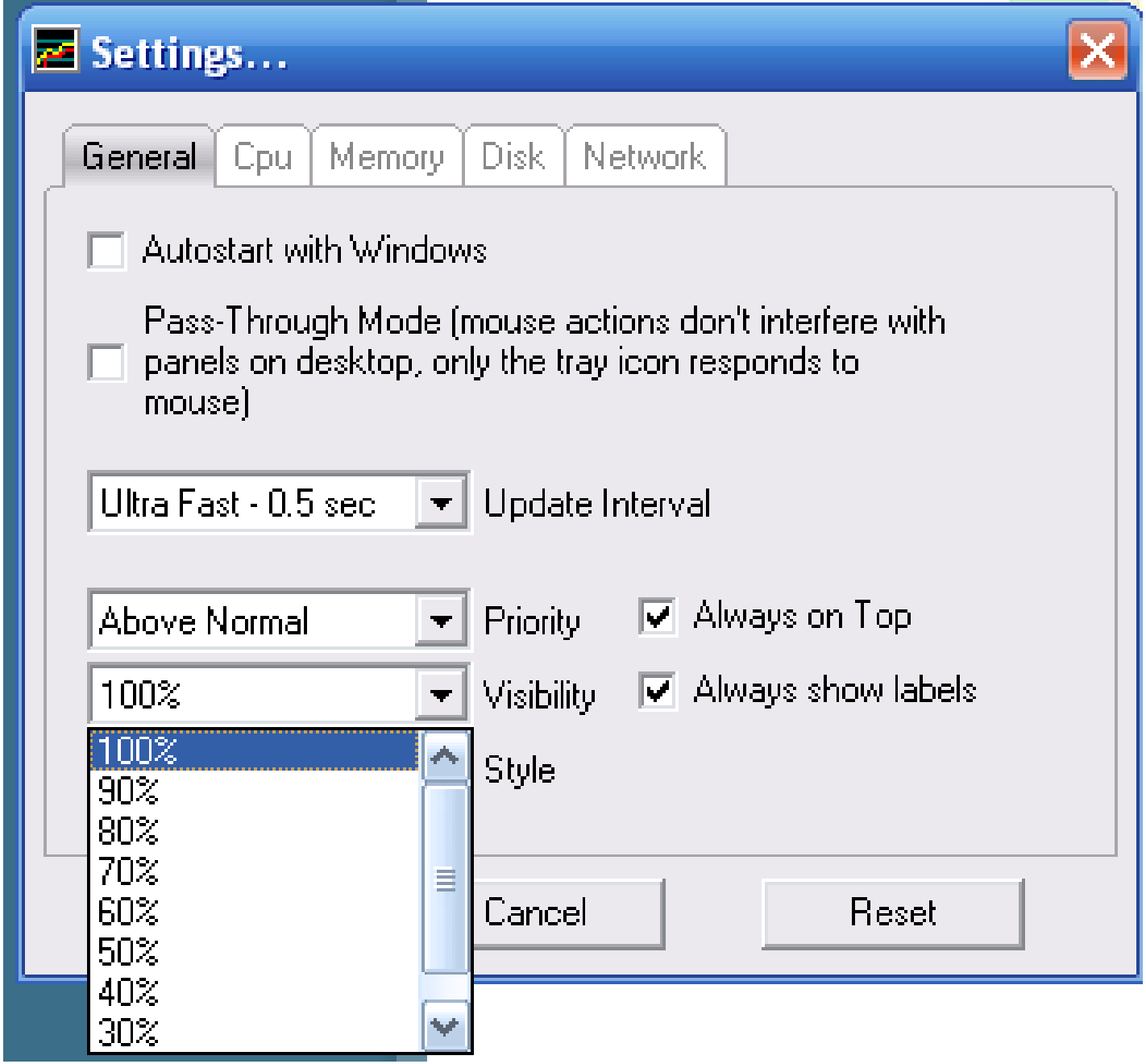
Settings

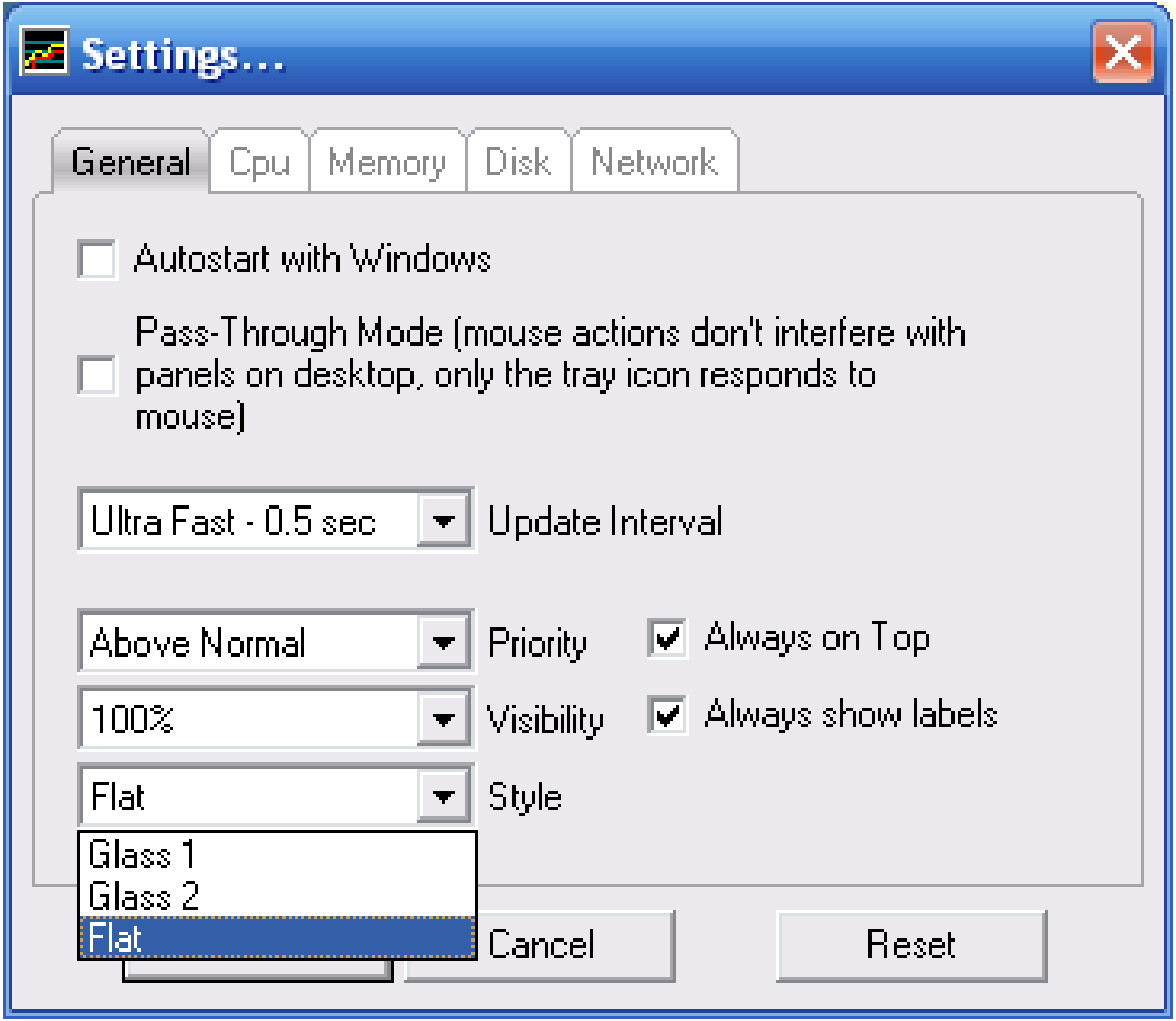
- General
- CPU
- Memory
- Disk
- Network


Settings...
General
Cpu
Memory
Disk
Network
Autostart with Windows
Pass-Through Mode (mouse actions don't interfere with panels on desktop, only the tray icon responds to mouse)
Ultra Fast - 0.5 sec
Update Interval
Above Normal
Priority
Always on Top
100%
Visibility
Always show labels
Flat
Style
Ok
Cancel
Reset

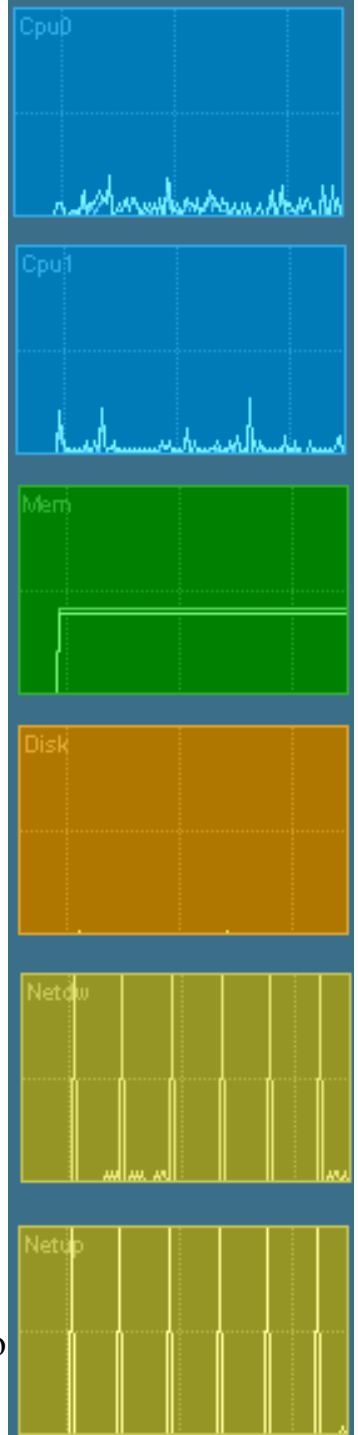

Settings...
General
Cpu
Memory
Disk
Network
Autostart with Windows
Pass-Through Mode (mouse actions don't interfere with panels on desktop, only the tray icon responds to mouse)
Ultra Fast - 0.5 sec
Update Interval
Ultra Fast - 0.5 sec
Fast - 1 sec
Normal - 1.5 sec
Medium - 3 sec
Slow - 5 sec
Very Slow - 10 sec
Priority
Always on Top
Visibility
Always show labels
Style
Ok
Cancel
Reset


Settings...
General
Cpu
Memory
Disk
Network
Autostart with Windows
Pass-Through Mode (mouse actions don't interfere with panels on desktop, only the tray icon responds to mouse)
Ultra Fast - 0.5 sec
Update Interval
Above Normal
Priority
Always on Top
Below Normal
Normal
Above Normal
Visibility
Always show labels
Style
Ok
Cancel
Reset

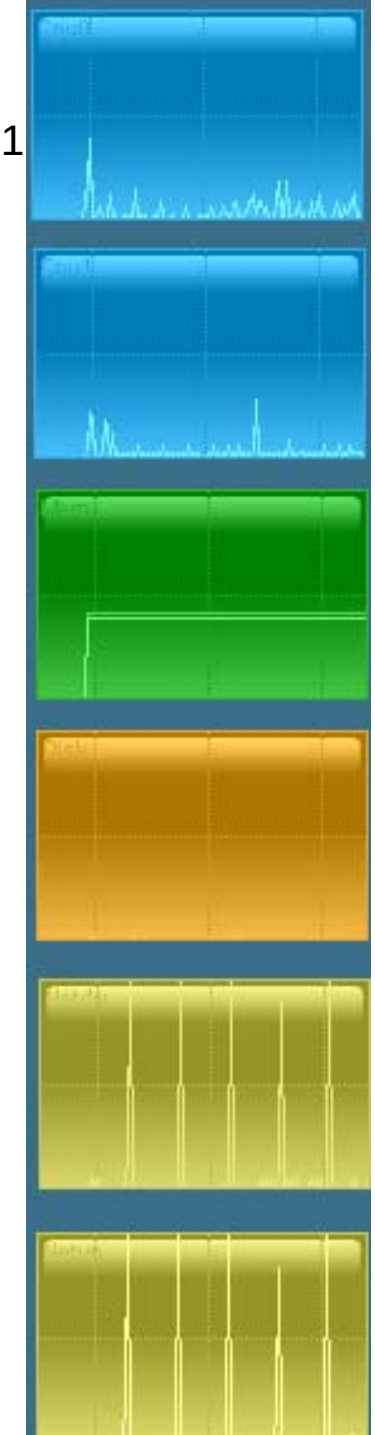

Settings...
General
Cpu
Memory
Disk
Network
Autostart with Windows
Pass-Through Mode (mouse actions don't interfere with panels on desktop, only the tray icon responds to mouse)
Ultra Fast - 0.5 sec
Update Interval
Above Normal
Priority
Always on Top
100%
Visibility
Always show labels
Style
100%
90%
80%
70%
60%
50%
40%
30%
Cancel
Reset


Settings...
General
Cpu
Memory
Disk
Network
Autostart with Windows
Pass-Through Mode (mouse actions don't interfere with panels on desktop, only the tray icon responds to mouse)
Ultra Fast - 0.5 sec
Update Interval
Above Normal
Priority
Always on Top
100%
Visibility
Always show labels
Flat
Style
Glass 1
Glass 2
Flat
Cancel
Reset

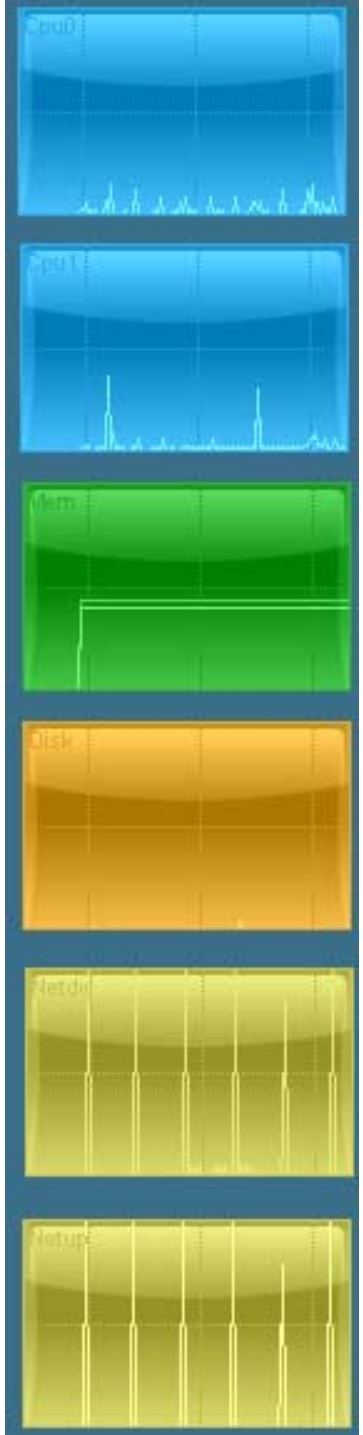
Flat



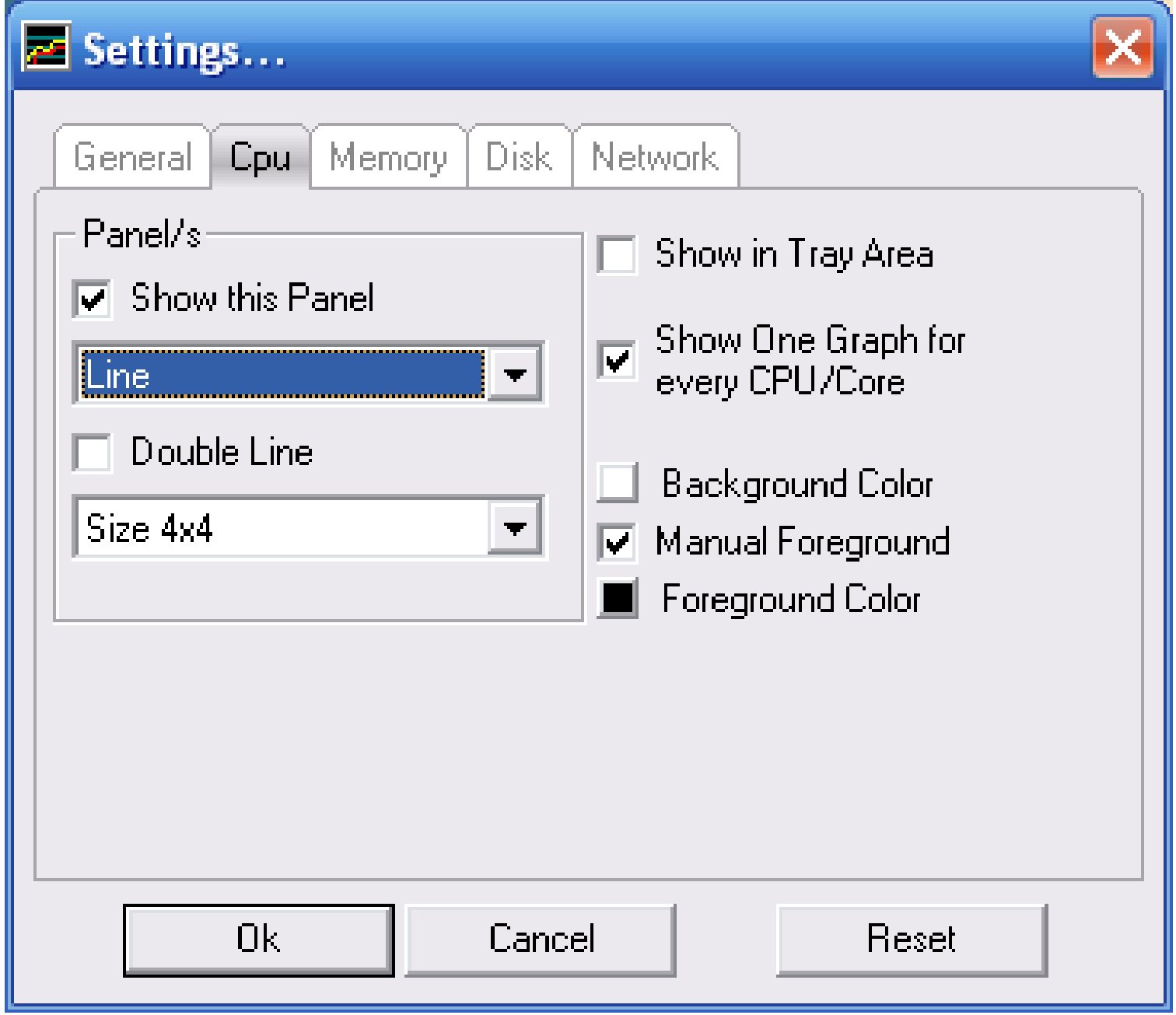
Glass 1



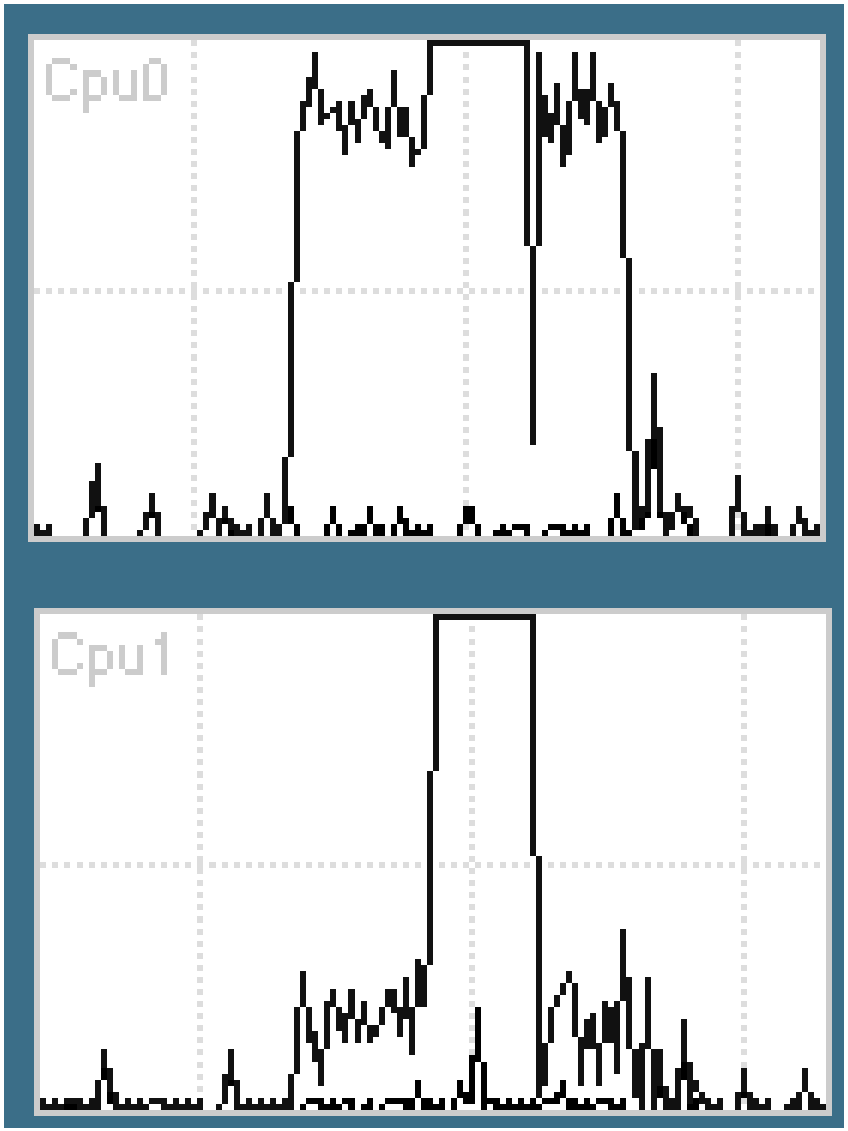
Glass 2

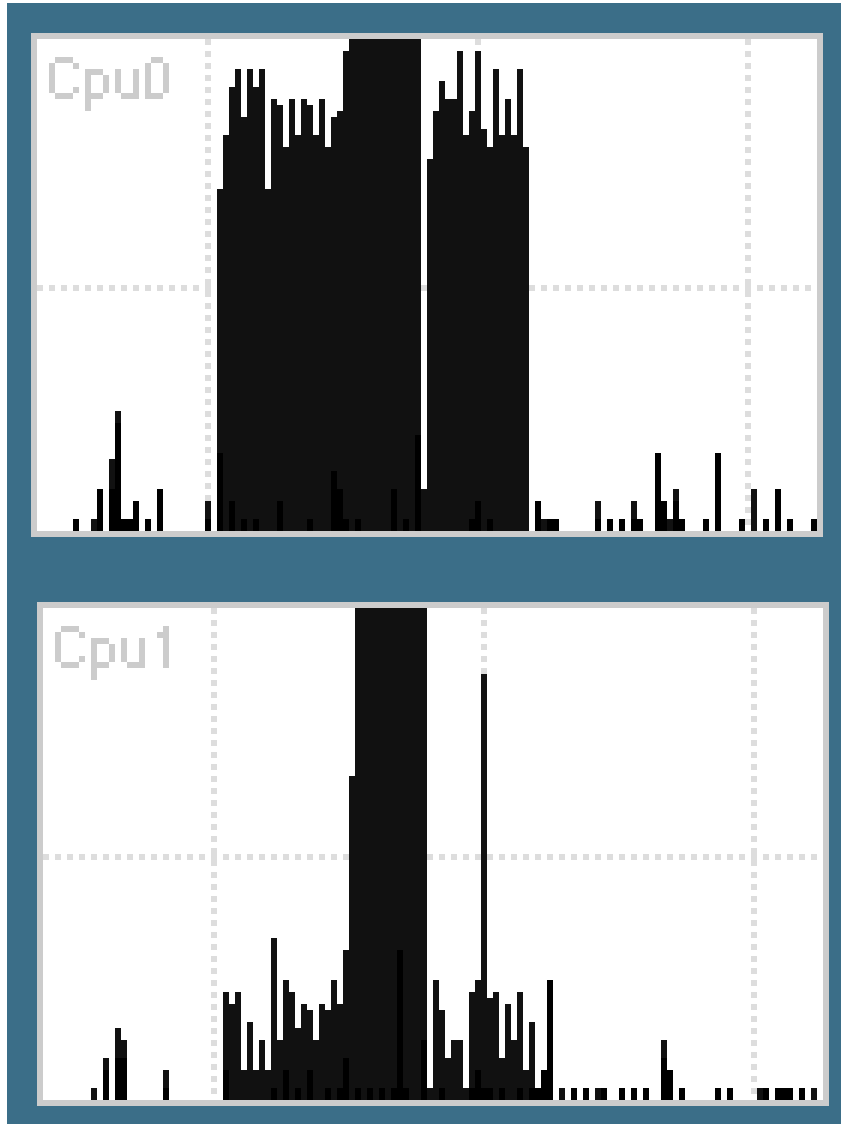


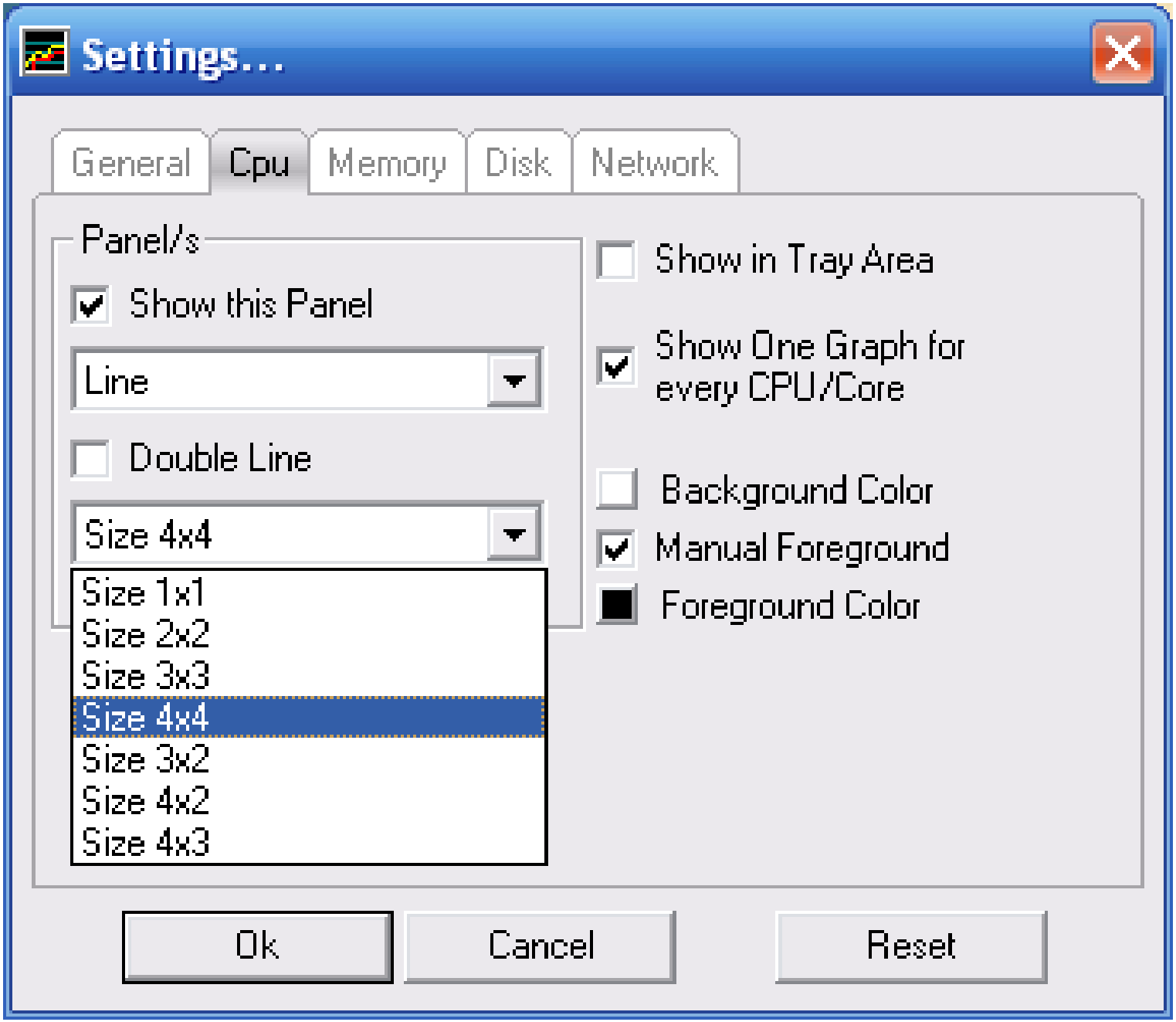
Jozo

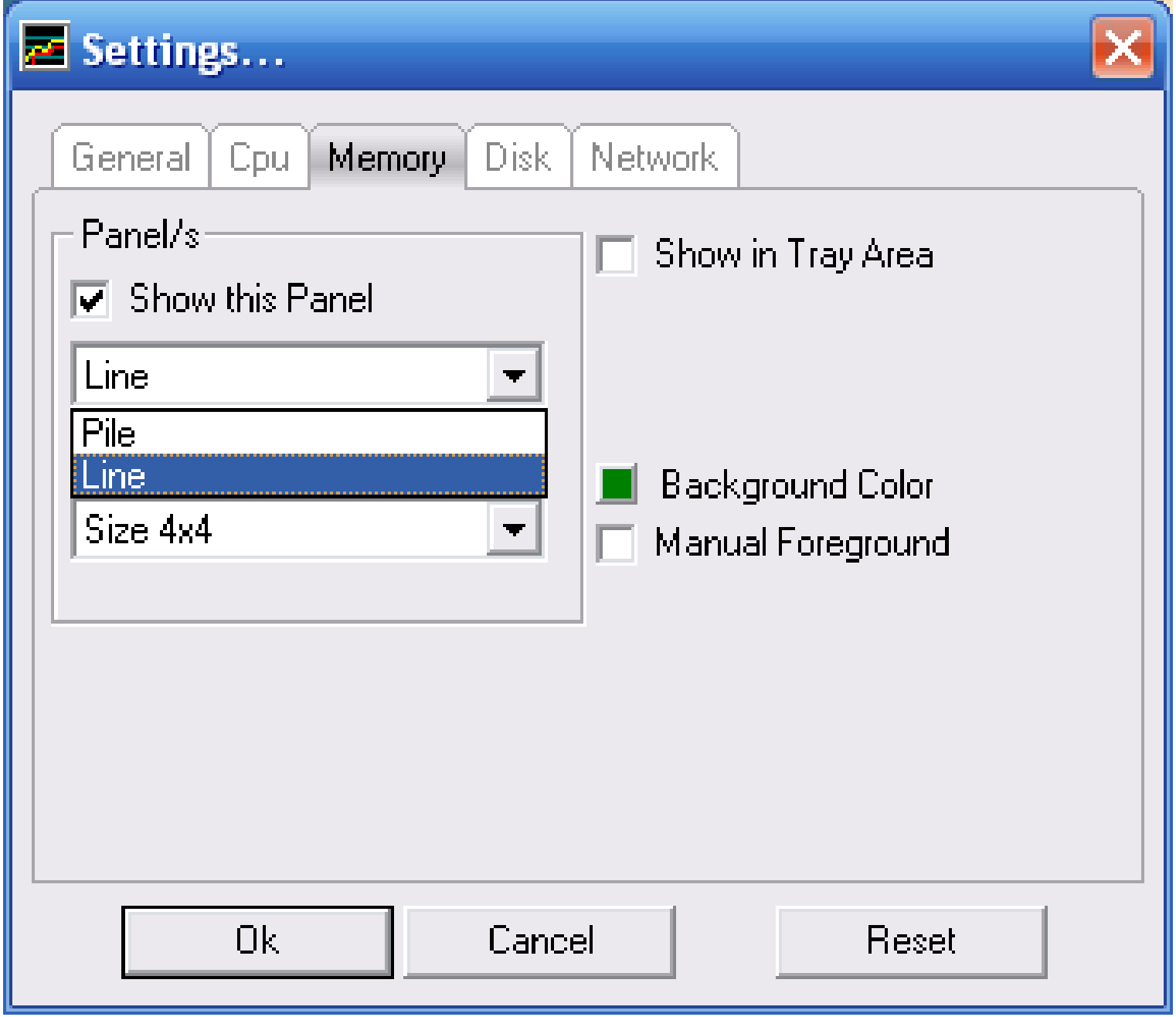

Settings...
General
Cpu
Memory
Disk
Network
Panel/s
Show this Panel
Line
Double Line
Size 4x4
Show in Tray Area
Show One Graph for every CPU/Core
Background Color
Manual Foreground
Foreground Color
Ok
Cancel
Reset

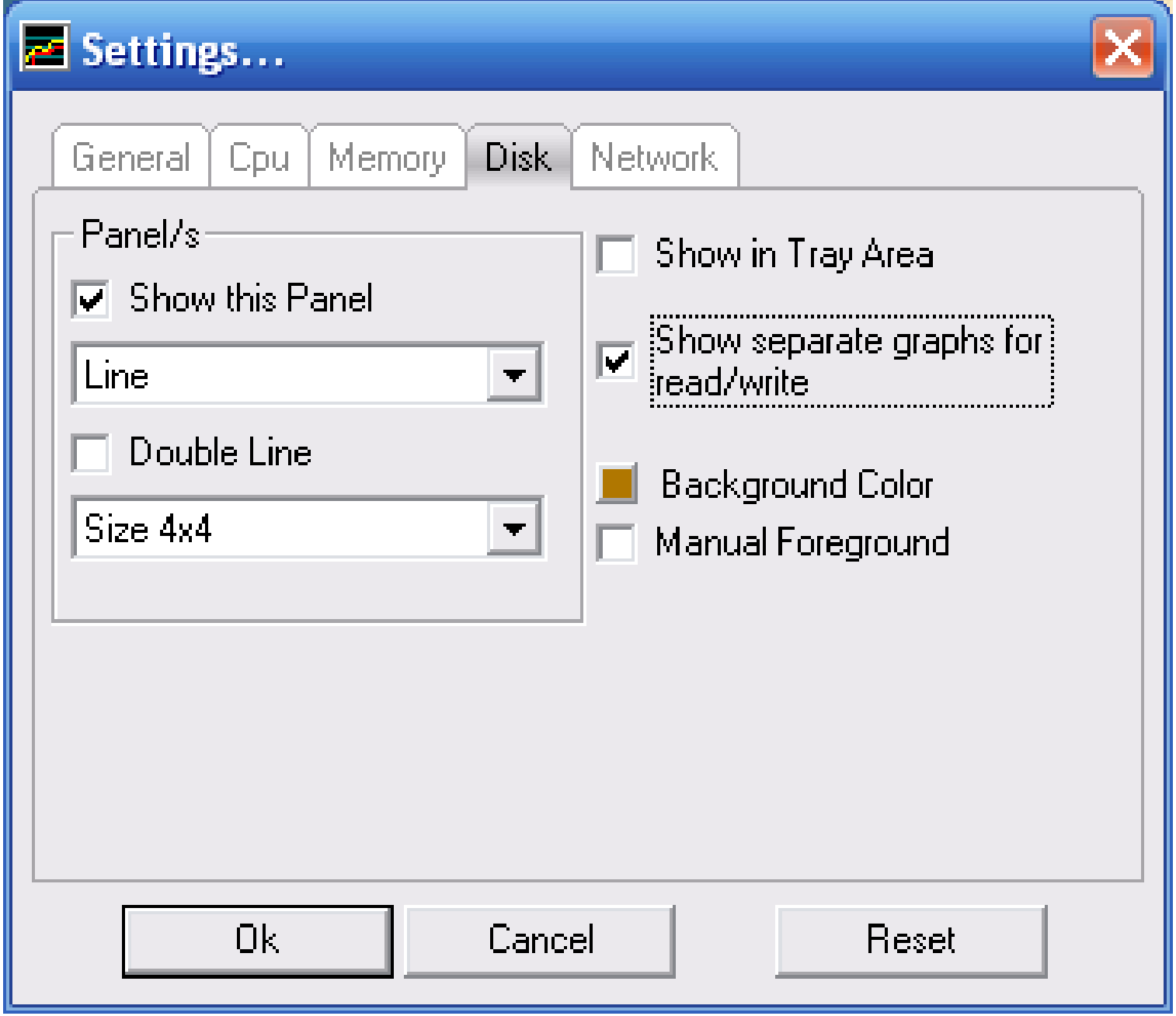
Line versus pile (SpeedMark)

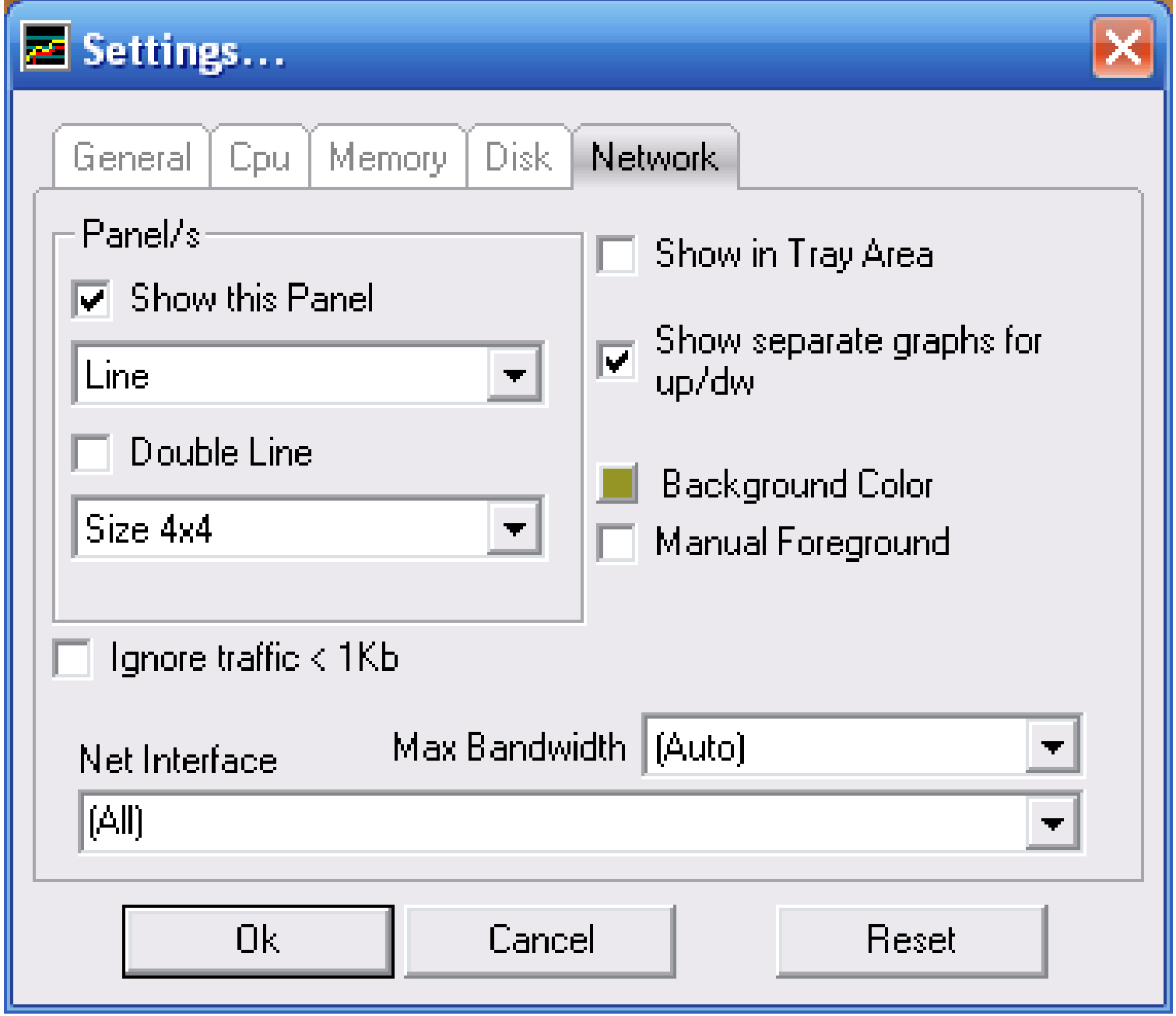




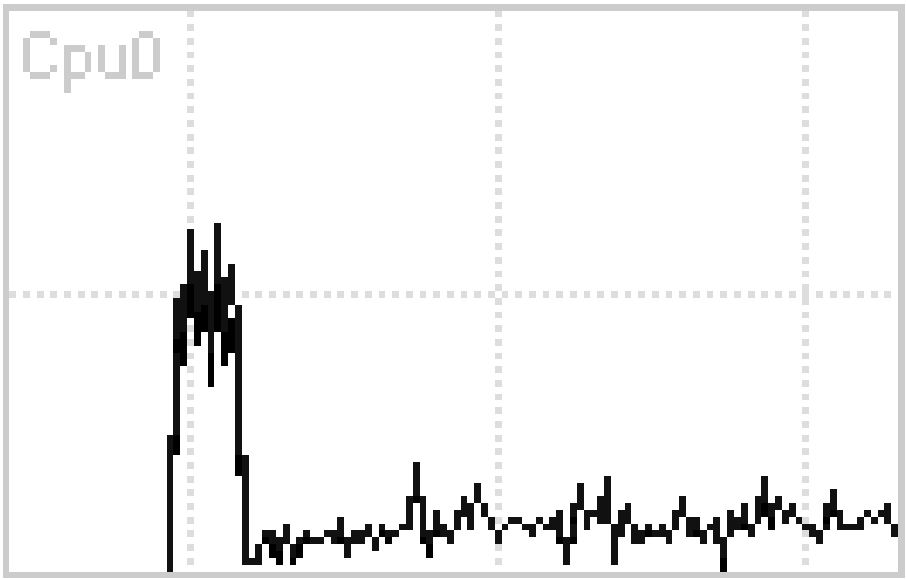

Settings...
General
Cpu
Memory
Disk
Network
Panel/s
Show this Panel
Line
Double Line
Size 4x4
Size 1x1
Size 2x2
Size 3x3
Size 4x4
Size 3x2
Size 4x2
Size 4x3
Show in Tray Area
Show One Graph for every CPU/Core
Background Color
Manual Foreground
Foreground Color
Ok
Cancel
Reset


Settings...
General
Cpu
Memory
Disk
Network
Panel/s
Show this Panel
Line
Pile
Line
Size 4x4
Show in Tray Area
Background Color
Manual Foreground
Ok
Cancel
Reset

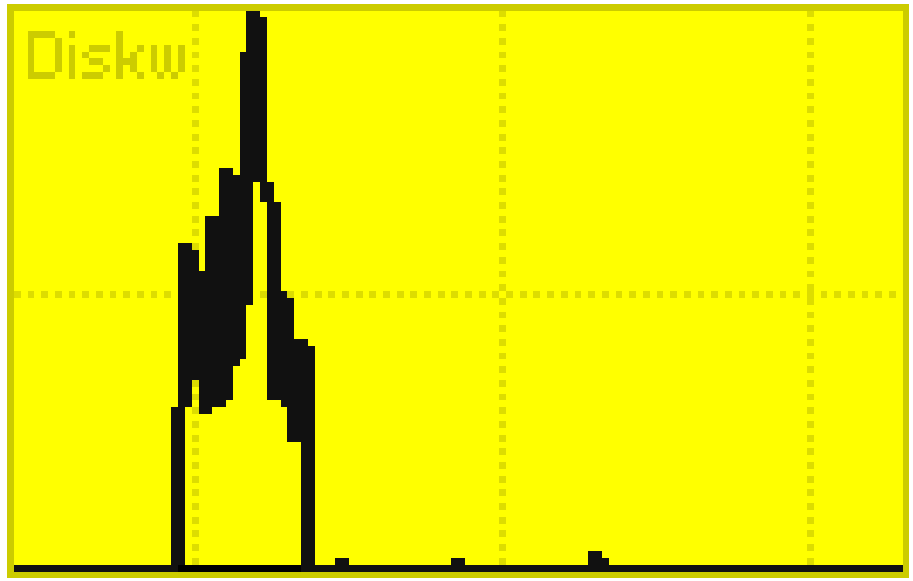

Settings...
General
Cpu
Memory
Disk
Network
Panel/s
Show this Panel
Line
Double Line
Size 4x4
Show in Tray Area
Show separate graphs for read/write
Background Color
Manual Foreground
Ok
Cancel
Reset


Settings...
General
Cpu
Memory
Disk
Network
Panel/s
Show this Panel
Line
Double Line
Size 4x4
Show in Tray Area
Show separate graphs for up/dw
Background Color
Manual Foreground
Ignore traffic < 1Kb
Net Interface
Max Bandwidth
(Auto)
(All)
Ok
Cancel
Reset

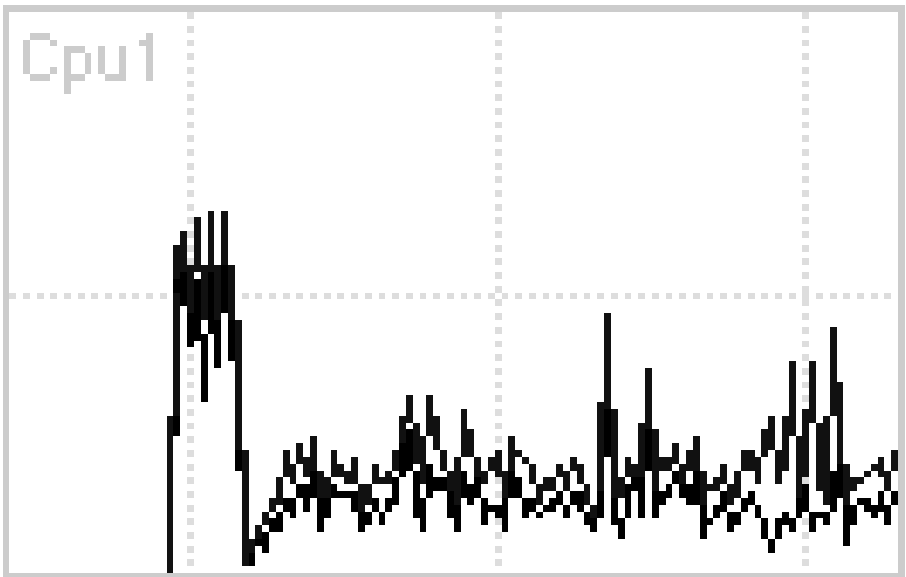
DiskMark: Sequential write and read phases

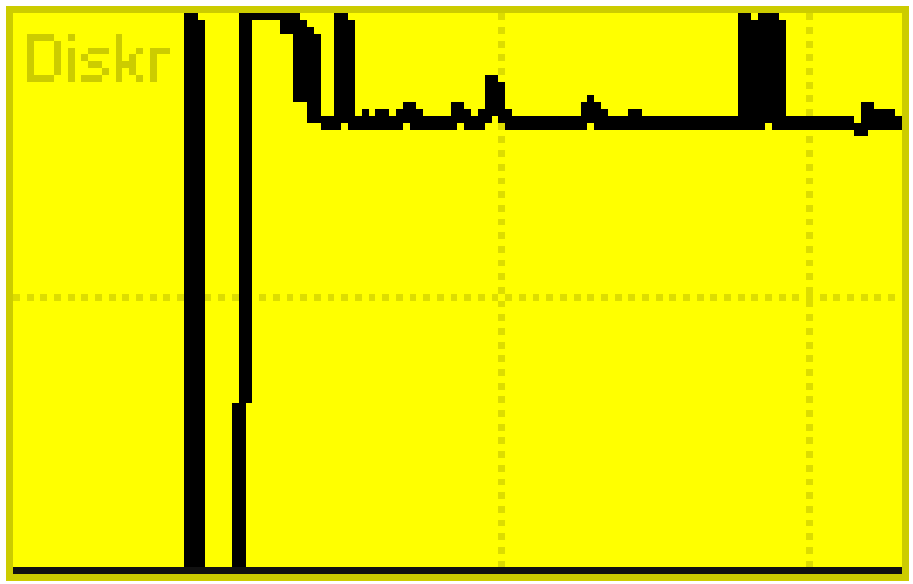


Write Sequential read

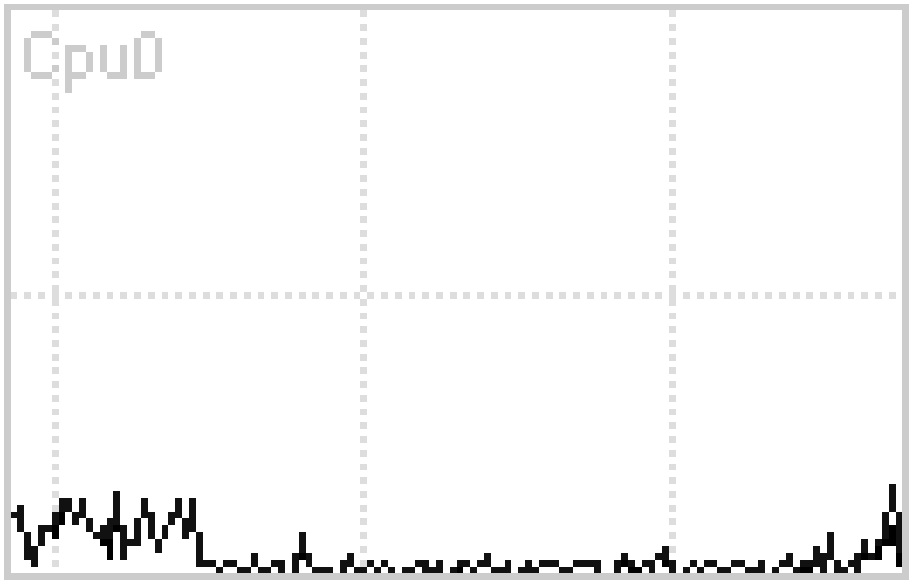


Write Sequential read

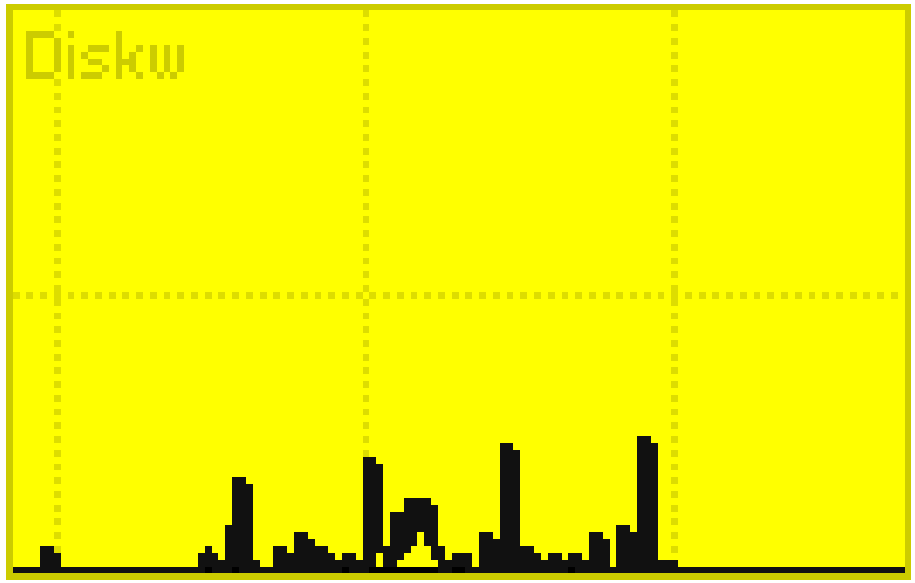




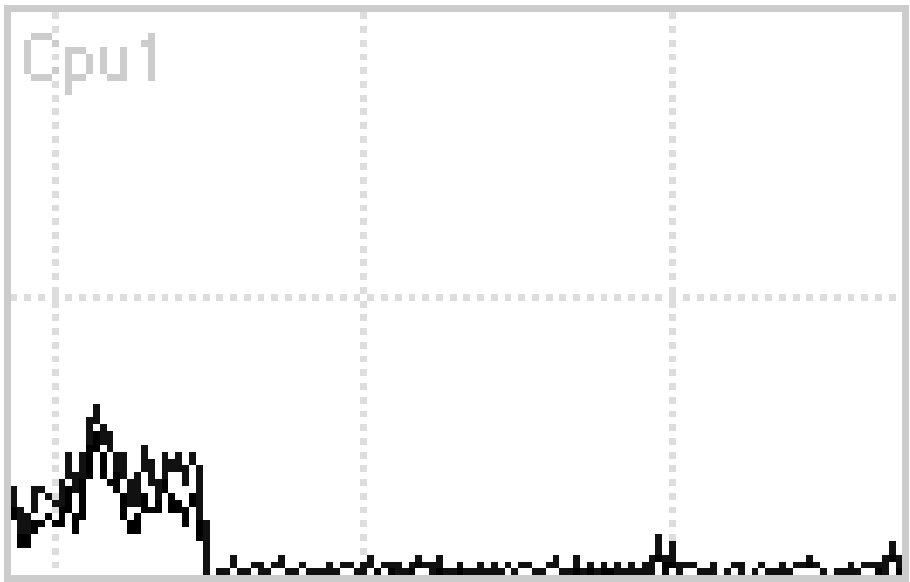
DiskMark: Random read phase

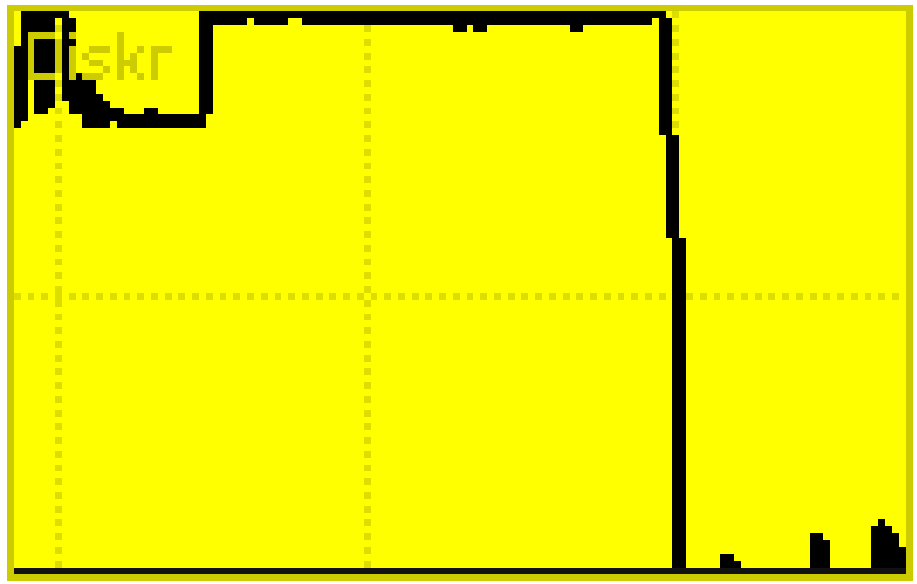


Seq read Random read (Ucpu = 0)



Seq read Random read (Udisk = 1)





Conclusions

- Performance monitors are important tools that should be active during benchmarking
- Monitoring a benchmarking process substantially contributes to understanding of performance phenomena
- Monitoring resource consumption is indispensable for system tuning and capacity planning