

UNIVERSITY OF MAKATI
College of Computing and Information Sciences
OPERSYS Laboratory Activity

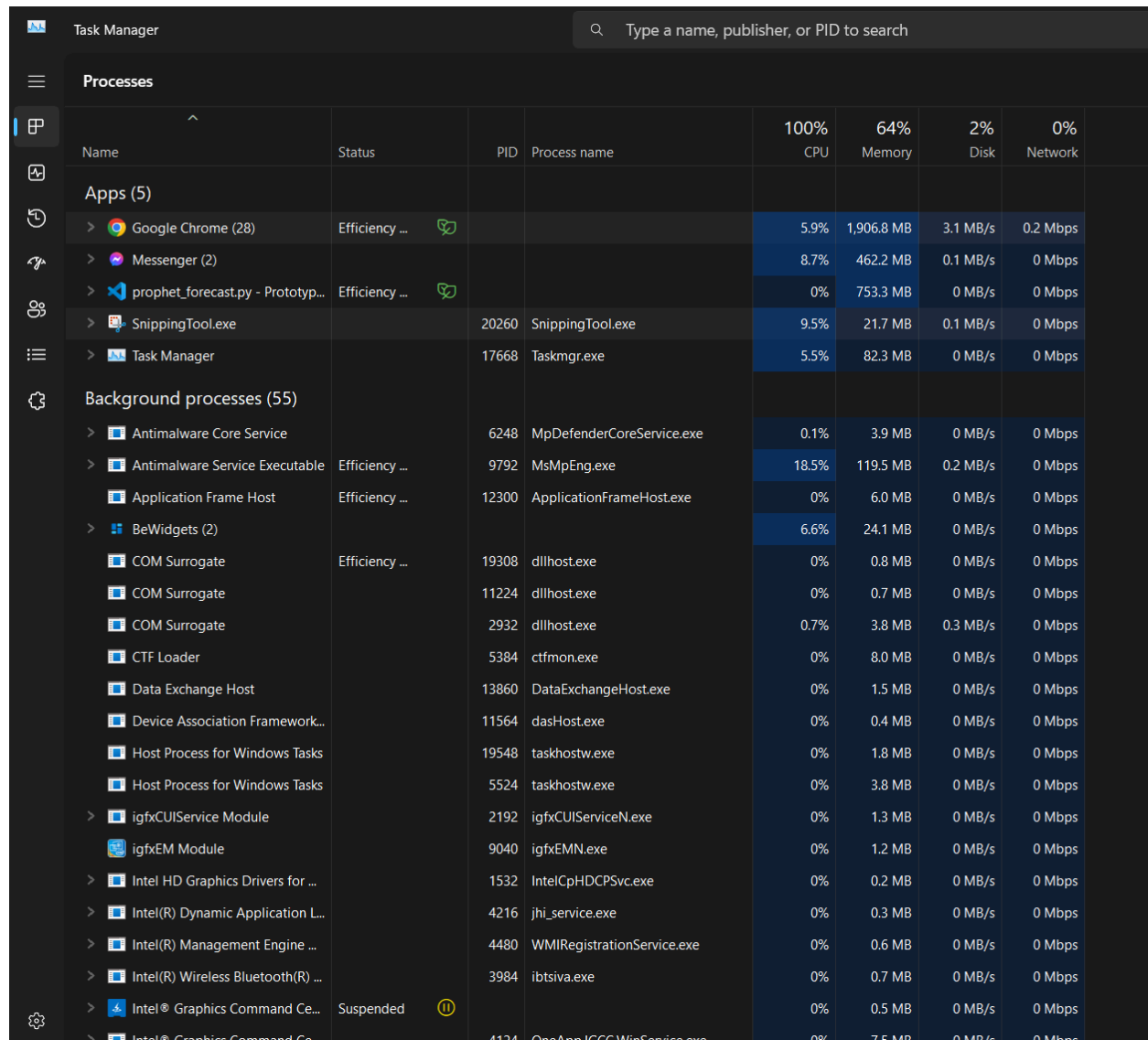
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The screenshot shows the Windows Task Manager interface with the 'Processes' tab selected. The interface is dark-themed. At the top, there is a search bar with the placeholder text 'Type a name, publisher, or PID to search'. Below the search bar, the 'Processes' section is expanded, showing a list of running applications and background processes. The list is organized into two main categories: 'Apps (5)' and 'Background processes (55)'. Each process entry includes a name, status, PID, process name, and resource usage (CPU, Memory, Disk, Network). The 'Apps' section lists Google Chrome (28), Messenger (2), prophet_forecast.py - Prototyp..., SnippingTool.exe, and Task Manager. The 'Background processes' section lists various system services and drivers, including Antimalware Core Service, Application Frame Host, BeWidgets (2), COM Surrogate, CTF Loader, Data Exchange Host, Device Association Framework..., Host Process for Windows Tasks, igfxCUIService Module, igfxEM Module, Intel HD Graphics Drivers for ..., Intel(R) Dynamic Application L..., Intel(R) Management Engine ..., Intel(R) Wireless Bluetooth(R) ..., Intel® Graphics Command Ce..., and Intel® Graphics Command Ce....

Name	Status	PID	Process name	100% CPU	64% Memory	2% Disk	0% Network
Apps (5)							
> Google Chrome (28)	Efficiency ...			5.9%	1,906.8 MB	3.1 MB/s	0.2 Mbps
> Messenger (2)				8.7%	462.2 MB	0.1 MB/s	0 Mbps
> prophet_forecast.py - Prototyp...	Efficiency ...			0%	753.3 MB	0 MB/s	0 Mbps
> SnippingTool.exe		20260	SnippingTool.exe	9.5%	21.7 MB	0.1 MB/s	0 Mbps
> Task Manager		17668	Taskmgr.exe	5.5%	82.3 MB	0 MB/s	0 Mbps
Background processes (55)							
> Antimalware Core Service		6248	MpDefenderCoreService.exe	0.1%	3.9 MB	0 MB/s	0 Mbps
> Antimalware Service Executable	Efficiency ...	9792	MsMpEng.exe	18.5%	119.5 MB	0.2 MB/s	0 Mbps
> Application Frame Host	Efficiency ...	12300	ApplicationFrameHost.exe	0%	6.0 MB	0 MB/s	0 Mbps
> BeWidgets (2)				6.6%	24.1 MB	0 MB/s	0 Mbps
> COM Surrogate	Efficiency ...	19308	dllhost.exe	0%	0.8 MB	0 MB/s	0 Mbps
> COM Surrogate		11224	dllhost.exe	0%	0.7 MB	0 MB/s	0 Mbps
> COM Surrogate		2932	dllhost.exe	0.7%	3.8 MB	0.3 MB/s	0 Mbps
> CTF Loader		5384	ctfmon.exe	0%	8.0 MB	0 MB/s	0 Mbps
> Data Exchange Host		13860	DataExchangeHost.exe	0%	1.5 MB	0 MB/s	0 Mbps
> Device Association Framework...		11564	dasHost.exe	0%	0.4 MB	0 MB/s	0 Mbps
> Host Process for Windows Tasks		19548	taskhostw.exe	0%	1.8 MB	0 MB/s	0 Mbps
> Host Process for Windows Tasks		5524	taskhostw.exe	0%	3.8 MB	0 MB/s	0 Mbps
> igfxCUIService Module		2192	igfxCUIServiceN.exe	0%	1.3 MB	0 MB/s	0 Mbps
> igfxEM Module		9040	igfxEMN.exe	0%	1.2 MB	0 MB/s	0 Mbps
> Intel HD Graphics Drivers for ...		1532	IntelCpHDCPSvc.exe	0%	0.2 MB	0 MB/s	0 Mbps
> Intel(R) Dynamic Application L...		4216	jhi_service.exe	0%	0.3 MB	0 MB/s	0 Mbps
> Intel(R) Management Engine ...		4480	WMIRegistrationService.exe	0%	0.6 MB	0 MB/s	0 Mbps
> Intel(R) Wireless Bluetooth(R) ...		3984	ibtstiva.exe	0%	0.7 MB	0 MB/s	0 Mbps
> Intel® Graphics Command Ce...	Suspended			0%	0.5 MB	0 MB/s	0 Mbps
> Intel® Graphics Command Ce...		4124	OneApp.IGCC.WinService.exe	0%	7.5 MB	0 MB/s	0 Mbps

Upon reviewing the Task Manager, I observed that the system has a variety of processes running, including user-initiated applications such as **Google Chrome**, which has multiple

instances with each tab consuming a significant portion of memory (2 GB). System processes like **svchost.exe** and **explorer.exe** are relatively efficient.

Most processes are in a **Running** state, while some background tasks are **Suspended** to conserve system resources. High-memory applications, such as web browsers and IDEs like **Visual Studio**, contribute the most to memory usage, while smaller background tasks like **antimalware service** and **audio services** consume minimal resources.

This distribution of memory shows that user activities, especially those involving multitasking in browsers or development environments, are the main drivers of resource usage on the system. The system manages these resources efficiently by suspending inactive processes, ensuring better overall performance.