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CS 3100

Final Paper

Windows 7

As we have covered many topics in our class including Operating System Windows 7, I have decided to go deeper into this topic. I chose to talk about Operating System Windows 7 because there are some great features that Windows 7 has which many people don’t know about. Also some of the topics in our Operating System book do not provide us in details, and because of that I will talk a little more about threads and its basic design issues as well as thread management facility in Windows 7 (Operating System Concepts book Ch. 4). Since at least five hundred million people use Windows 7, I thought that it would be a great idea to talk about it (solute.com knowledge base).

Operating System Windows 7 has many useful features. One of them is called God Mode. Settings are all over Windows 7 but with God Mode users could have all the control they want in just one folder. If users ever decide to have a God Mode turning it on is very easy. “To turn on God Mode, create a new folder on your desktop--or anywhere you'd like--and name it: GodMode.{ED7BA470-8E54-465E-825C-99712043E01C}” which tells you how easy it is to use (pcmag.com god mode).

Calculator is something that Windows 7 has but a lot of people do not know about extra stuff that this calculator has. All you have to do is click on ‘View’ and you will see different features that it has. One of the features I am currently using is ‘Programmers View’ which helps me calculate Hex, Binary and Decimal conversations (Windows Microsoft using Calculator).

One other feature that this Operating System has is WordPad. What is great about it is it allows you do have and view different file formats. I am currently using Vista on my other laptop which doesn’t allow you many different file formats to save on your computer. In Windows 7 it is different, even though you don’t have Microsoft Word it still allows you to open and save that document (PC Mag WordPad).

One of the features that I will always use in Windows 7 is Reliability Monitor. “Reliability Monitor is an advanced tool that measures hardware and software problems and other changes to your computer.” (Microsoft Windows). This is great because if one of the programs I am using crashes or it if has any problems I can just look at it through history and it will tell where the problem is. I love this feature.

Most of these features that we have mentioned above are not used all the time. But one of the features that could be used all the time is sticky notes. This is something that I am using almost every day, because I do not want to open a new file every time to save something, and plus it is there on your desktop so you don’t forget it about it. “Sticky Notes is available only in the Home Premium, Professional, Ultimate, and Enterprise editions of Windows 7.” (Windows Microsoft), even though it is required to have these editions it is great to have it because you will no longer need a pen or a paper.

Since we are talking about Operating System Windows 7 I thought the book hasn’t covered threads the way I thought, and because of that I decided to focus on Windows threads. Each operating system differs from one other. (OS book by William Stalling pg.175). So operating system in Windows is different in many ways which includes naming of the processes, threads within the process and if they are provided, representing of processes, how these processes are protected and how they relate to each other, mechanisms in using communication and synchronization (OS book by William Stalling pg.176). Since Windows has its own processes and threads, we can say that these processes and threads objects are composed of many attributes (OS book by William Stalling pg.177). These windows process object attributes are process id, security descriptor, base priority, default processor affinity, quota limits, execution time, I/O counters, VM operation counters, exception/debugging ports and exit status. Because Windows supports multithreading, Windows thread has six states. These six states are ready, stand by, running, waiting, transition and terminated (OS book by William Stalling pg.178).

Overall we can say that many people are using Operating System Windows 7 and they are continuing to do so. Since they are continuing to use it, it is fair to say that users should be aware of these great features that Windows 7 has. Operating System in Windows 7 cannot exist without threads. Threads play a big part in operating system. Not only can we say that they are very important but we can also say why we should use them. If we have threads it makes it easier for coding more than one activity in an application (CS duke slides). We would use threads since they are considered lightweight because they don’t use more resources than processes (CS duke slides).

References

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