

Tiny OS: An easy interface for windows based executable files.

Megha Pazare¹, Priyanka Shinde², Netra Wani³, Ashwini Yadav⁴, Amit Zore (Guide)⁵

¹UG Student, Dhole Patil College of Engineering, Pune, Maharashtra, India.
Megha.pazare19@gmail.com

²UG Student, Dhole Patil College of Engineering, Pune, Maharashtra, India.
Priyankas1413@gmail.com

³UG Student, Dhole Patil College of Engineering, Pune, Maharashtra, India.
Netrawani93@gmail.com

⁴UG Student, Dhole Patil College of Engineering, Pune, Maharashtra, India.
Ashwini.yadav64@yahoo.com

⁵Professor, Computer Department, Dhole Patil College of Engineering, Pune, Maharashtra, India.
Amit.zore@gmail.com

Abstract - Traditional windows compatible technology like Wine are just allows a wide variety of windows software to run as-if-natively on unix based operating system like Linux. This is only software handler which allows user to add number of softwares. In the current technology we mainly describe using wine offers the applications which is being able to run on any operating system you want. In the recent study, many researchers tried to make this technology system more secure. This paper presents the survey of the studies done earlier and thereby analyses the drawbacks and proposed a new technique.

Keywords - Operating System, Kernel, Multi Task Schedule, Inter Task Communication, Cluster.

1. Introduction -

Project is all about to make linux capable to run .exe files which run on windows operating system. The application will provide proper user ID and password. so that no one can misuse it. This system will be use in training phase of all the company where all the new comers are not aware of Linux if any user feel difficult to use Linux at that place it will applicable as substitution. Also no any kind of special training needed for it. Also the new user who want to use Linux but don't know about it then they can start with this software. Migrating operating system instances across distinct physical hosts is a useful tool for administrators of data centers and clusters: It allows a clean separation between hardware and software and facilitates fault management, load balancing, and low level system maintenance.

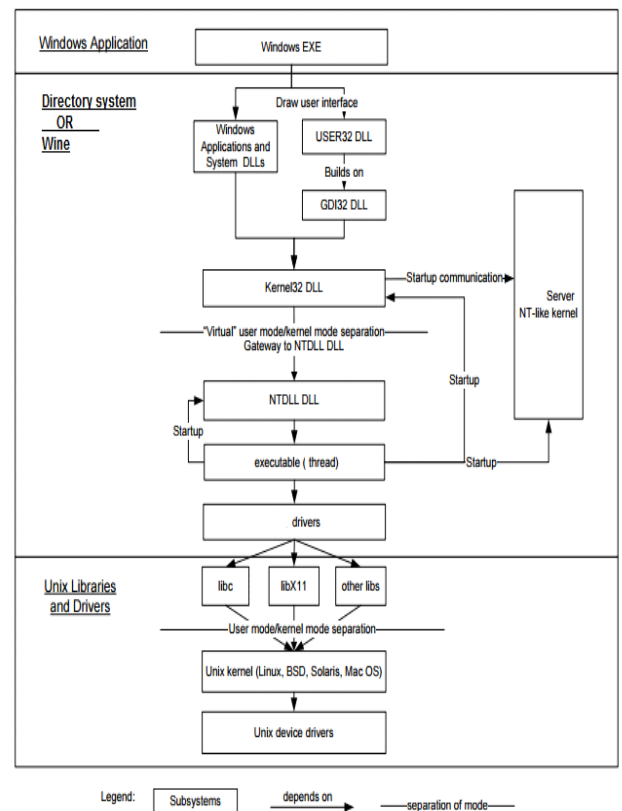


Figure 1. System working of [1] system

By carrying out the majority of migration while OSs continue to run, we achieve impressive performance with minimal service downtime;

We demonstrate the migration of entire second issue is that these noise like meaningless shares are OS instances on the commodity cluster, recording service downtime as low as 60ms. We show that our performance is sufficient to make live migration a practical tool even for servers running interactive loads[1].

2. Literature Survey -

Wine is recursive acronym for Wine Is Not an Emulator. started in 1993. Wine is an open source project, developed and maintained by the community under the coordination of Alexandre Julliaed.

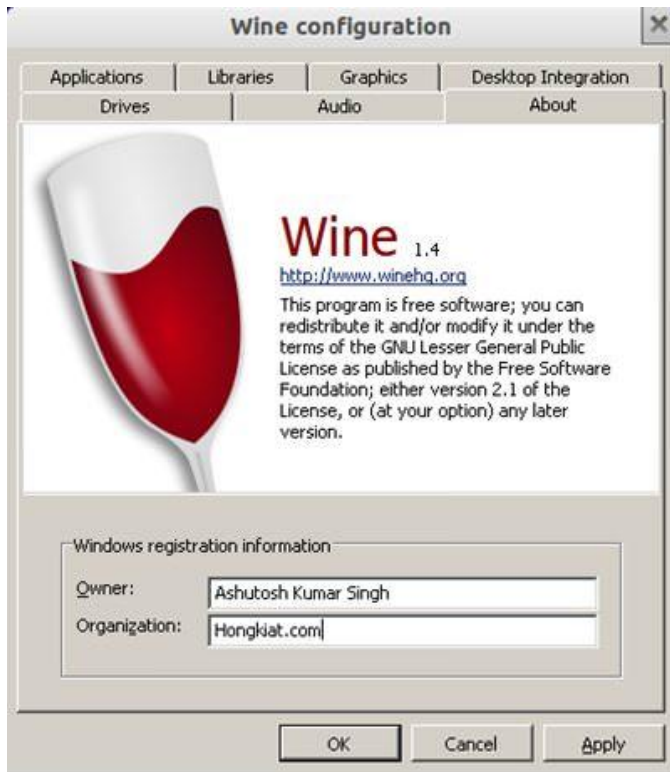


Figure 2. Wine in [2] system

Wine is a compatibility layer between Windows programs and the operating system. It converts Windows API calls to POSIX calls, thus allowing integration of windows applications to POSIX-complaint OS (Linux and BSD). Rather than an emulator or virtual machine, it is a reimplementaion of Win32 API [2].

Balram Yadav and Vishwas Karhadkar presented the study and introduction of tiny operating system. The objective of this paper is to study TinyOs, Its futures services and model. This paper also introduce about the nesC programming language , used for implementation of TinyOS. it is just an attempt to introduce the basics of TinyOS, features, some implementation details. nesC language provides the features that are necessity of TinyOS requirement.

A clear view is provided to differentiate the components, interface, events and task. This research topic is very vast and currently came into the picture. It is Open for research and there are many field related to this topic which demands more efficient solution like memory management, task scheduling event handling etc[3].

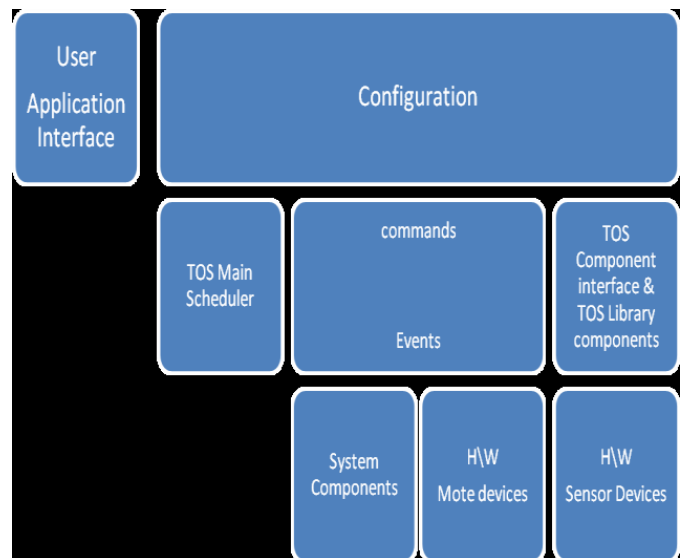


Figure 3. TOS working model [3]

Chunxiao Li, Anand Raghunathan, and Niraj K. Jha in this paper presented we proposed a virtualization architecture to ensure a secure VM execution environment under an untrusted management OS. The mechanism includes a secure network interface, secure secondary storage and most importantly, a secure run-time execution environment. We implemented the secure run-time environment in the Xen virtualization system. Using the proposed mechanism, DomU is protected from the untrusted management domain Dom0, while Dom0 can still carry out the normal domain administrative tasks, such as domain build, domain save and domain restore. We believe that using the proposed secure virtualization architecture, even under an untrusted management OS, a trusted computing environment can be created for a VM which needs a high security level, with very small performance penalties. [4].

3. Conclusion -

Thus this paper presented an all-inclusive survey of .exe file and vos. The main features, the advantages and disadvantages of each are described. As per survey, The Proposal software will be a very useful approach for all linux illiterate people. This project generally will be dealing with the configuration of the kernel of the operating system. The main motive is to provide an easy way for executing .exe files on linux platform. We will put our best efforts to make this projects more efficient in every possible manner.

4. Acknowledgement -

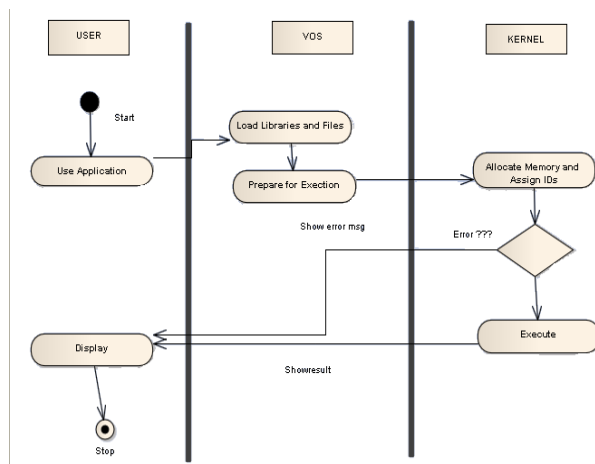
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5. Proposed System -

Access Linux and windows operating system at the same time. All the command being used in windows platform will get executed on Linux platform. This system will be used in training phase of all the company where all new comers are not aware of Linux if any user feel difficult to use Linux at that place it will applicable as substitution. Also no any kind of special training needed for it. Also the new user who want to use Linux but don't know about it then they can start with this software.

6. System Architecture -



7. References -

- [1] A semitechnical white paper , "An introduction to wine".
- [2] Balram Yadav, Vishwas Karhadkar and Yodesh Kakde, "A Introduction And Study to Tiny Operating System," International journal of advanced research in computer science and software engineering , vol. 3, no. 8, Aug. 2013.
- [3] Chunxiao Li, Anand Raghunathan and Niraj K. Jha, "Secure Virtual Machine Execution under an Untrusted Management OS," IEEE Trans. On cloude computing, Oct 2010.
- [4] "VMwarePlayer, <http://www.vmware.com/products/player>.