Department of _____Engineering

Academic Year: 2020-21

:System Programming and Operating System SUBJECT

CLASS: TE

SEMESTER: 5th

ASSIGNMENT NO.: OCW

DATE OF

SUBMISSION:30/11/2021

NAME OF STUDENT: KAUSTUBH SHRIKANT KABRA

ROLL NO. 38

TOPIC: Compare and write Memory management in Linux/Windows

WEBSITE URL REFERRED: https://www.youtube.com/watch?v=nsWklEuhRmM,

Summary/Abstract/Review:

lomnarison-

1. Data Structures

- windows uses tru data structure.

defeat is divided into the peech

- windows uses true and shaked.

- each node of the true is called Virtual address descriptors (VAD)

- free nodes are unused nodes.

- Reserved nodes cannot be used until reservation is lifted off.

Linux

Marks

- it uses linked list data structure.

- it maintains a list of Nm-area_structs.
- this list is searched whenever a page is to be found.
- it also records the range of address.
- linux uses data structure depending upon the situation.

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2. Distribution of process address space	
- windows on 32 bit 2006 system can access	upto 4GB of
- the lower 2GB is for the address space user mode.	errel mode. is reserved for
Linux	TOPIC: Compare
-3GB of memory space is reserved for user mo	de.
-1GB is kept for kernel mode.	Summary/Abs
3. Address Structure	
- Address is divided into two parts • page number	Graphing.
page rumber institute in the second of the page offset.	
Linux Linux	inga sikk-
- Linear address is broken into four parts · Ylobal Discrectory · page tabl	Vancai.
· Ylosal Diarectory · page tall · Middle Directory · offset.	hil and ti
Conclusion:	esistina ti -
We have compared the linux and windows bet	all of Memory
Management.	
Name & Sign of Subject In-charge:	Marks:
Ms. Amrapali S. Chavan	