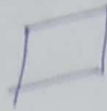


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TUESDAY
NOVEMBER

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57	17	18	19	20	21	22
114	S	M	T	W	T	F
214					1	2
	4	5	6	7	8	9
	11	12	13	14	15	16
	18	19	20	21	22	23
	25	26	27	28	29	30

* SYSTEM CALL :-

The interface between the operating system and the users programs is defined by the set of system calls that the operating system provides. The actual mechanism of issuing a system call is highly machine dependent and often must be expressed in assembly code. But a procedure library is provided written in C and C++ to make it possible to make system calls.

For example we consider a simple program to copy data from one file to another file. This program requires following steps each of which requires some of other system calls.

1. Two filenames to be provided - input file and output file.
2. To open the input file and create output file.
3. If file to be opened does not exist or is protected

I/P - Input/Process

M	T	W	T	F	S	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

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should print appropriate error message on the console and then terminate.

4. Similarly if output file with the same name already exists. then either we have to abort the operation or delete existing file or to replace the existing file.

5. Now, program enters a loop that reads from i/p file and writes to output file. Each read and write system call must return status information regarding every possible error conditions.

6. On output program may find that end of file has been reached or hardware failure occurred in the read (parity error). on output also, various errors can occur depending on output device being used. (printer out of paper, no more disk space).

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S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

System calls are roughly grouped into 5 categories:

1. Process Control
2. File Management
3. Device management
4. Information maintenance
5. Communication.