

4. open, read, offset examples

Assume *file* contains 300 bytes:

System Calls	Return Code	Current Offset
<code>fd = open("file", O_RDONLY);</code>	3	0
<code>read(fd, buffer, 100);</code>	100	100
<code>read(fd, buffer, 100);</code>	100	200
<code>read(fd, buffer, 100);</code>	100	300
<code>read(fd, buffer, 100);</code>	0	300
<code>close(fd);</code>	0	–

open more than once:

System Calls	Return Code	OFT[10] Current Offset	OFT[11] Current Offset
<code>fd1 = open("file", O_RDONLY);</code>	3	0	–
<code>fd2 = open("file", O_RDONLY);</code>	4	0	0
<code>read(fd1, buffer1, 100);</code>	100	100	0
<code>read(fd2, buffer2, 100);</code>	100	100	100
<code>close(fd1);</code>	0	–	100
<code>close(fd2);</code>	0	–	–

open and reposition:

System Calls	Return Code	Current Offset
<code>fd = open("file", O_RDONLY);</code>	3	0
<code>lseek(fd, 200, SEEK_SET);</code>	200	200
<code>read(fd, buffer, 50);</code>	50	250
<code>close(fd);</code>	0	–