## COP 4610

**Operating System Principles** 

**File Systems** 











File Types – Name, Extension								
file type	usual extension	function						
executable	exe, com, bin or none	ready-to-run machine- language program						
object	obj, o	compiled, machine language, not linked						
source code	c, cc, java, pas, asm, a	source code in various languages						
batch	bat, sh	commands to the command interpreter						
text	txt, doc	textual data, documents						
word processor	wp, tex, rtf, doc	various word-processor formats						
library	lib, a, so, dll	libraries of routines for programmers						
print or view	ps, pdf, jpg	ASCII or binary file in a format for printing or viewing						
archive	arc, zip, tar	related files grouped into one file, sometimes com- pressed, for archiving or storage						
multimedia	mpeg, mov, rm, mp3, avi	binary file containing audio or A/V information	6					





Access Methods				
Sequential Access				
	read next			
	reset			
	skin forward			
Direct Access				
	read n			
	write n			
	position to <i>n</i>			
	read next			
	write next			
	rewrite n			
<i>n</i> = relative block number				
	COP 4610 – Operating System Principles			





































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A Sample UNIX Directory Listing							
-rw-rw-r drwx drwxrwxr-x drwxrwx -rw-rr -rwxr-xr-x drwx-xx drwx drwxrwxrwx	1 pbg 5 pbg 2 pbg 2 pbg 1 pbg 1 pbg 3 pbg 3 pbg	staff staff staff staff staff faculty staff staff	31200 512 512 9423 20471 512 1024 512	Sep 3 08:30 Jul 8 09.33 Jul 8 09:35 Aug 3 14:13 Feb 24 2003 Feb 24 2003 Jul 31 10:31 Aug 29 06:52 Jul 8 09:35	intro.ps private/ doc/ student-proj/ program.c program lib/ mail/ test/		