

Parsing a 'passwd' file Shown below is an /etc/passwd file Toot:x:0:13:admin account:/tmp:/usr/bin/ksh daemons:11:1:daemons:/:/dev/null Guest:x:499:511:guest account:/home/Guest:/usr/bin/ksh profile:x:503:13::/home/profile:/usr/bin/ksh rese:x:508:13::/home/rese:/usr/bin/ksh Each field is separated by colons (':') This type of file is very easy to parse via the 'split' function BR Fall 2001 2



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Load Flow file format (cont)

The file is split into various sections, the first two are called 'BUS DATA' and 'BRANCH DATA'.

The 'BUS DATA' contains a line for each bus in the system and gives various details about that bus such as Load MW, Base KV, etc.

The 'BRANCH DATA' section details the connectivity of the system:

30 Bu -999	s 30		33	1	1 0 0.9	92 -17.94	10.6	1.9	
BRANCH DATA FOLLOWS				ws			41 ITEMS		
1	2	1	1 1	L 0	0.0192	0.0575	0.0528	0	
1	3	1	1 1	LO	0.0452	0.1652	0.0408	0	
2	4	1	1 1	LO	0.0570	0.1737	0.0368	0	
3	4	1	1 1	LO	0.0132	0.0379	0.0084	0	
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Another Way

```
while (<INPUT>) {
    chop;
    @words = split;
    if ($word[0] eq "BUS") {
       last;
    }
}
```

Split each line into words, look for a line whose first word is equal to 'BUS'. 'split' with no arguments splits the string stored in \$_ on whitespace.

Note the use of the 'eq' operator for string comparison.

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Summary One of the most common Perl applications is to parse ASCII data files Perl has powerful features for parsing ASCII files *split* function pattern matching