

**NAME**

`userlist` - generates **SCCS USERS REGISTER** from password file(s) supplied as argument(s)

**SYNOPSIS**

`userlist passwordfile1 [ passwordfile2 ...]`

**DESCRIPTION**

`Userlist` extracts and formats a sorted list of **SCCS Laboratory Users** from the named password file(s) and sends the list to the standard output. `Userlist` expects the comment fields of the password file entries to follow a prescribed format as described under **PASSWORD FILE FORMAT**.

**PASSWORD FILE FORMAT**

`Userlist` extracts the **SCCS USERS REGISTER** from the GCOS fields of the password file entries. In the **SCCS Lab** the GCOS field is used as a comment field and will be referred to as the comment field in the remainder of this description.

For `userlist` to function properly, the comment field of each password file entry is divided into 4 or 5 subfields separated by commas. Five subfields are required if a user priority is included as described in passwd(5); otherwise, only four subfields are required. Most **SCCS** password file entries have four subfields called name, telephone, location, and department. The telephone and/or location subfield may be left blank, but the terminating comma for each missing subfield must appear.

The four subfields must conform to the following conventions or an appropriate diagnostic will be issued to the user's standard error output:

name

This subfield contains the user's first and last names, first name first. The name included in the subfield may consist of more than two words, but the second word is always assumed to be the last name for sorting purposes. If the name subfield is too long, `userlist` truncates it to 23 characters. A legal character in the name subfield is any of the upper or lower case letters, a blank, or a period.

Both the first and last names must begin with capital letters. If the first name begins with a lower case letter, `userlist` ignores that password file entry, and that user will not appear on the **SCCS USERS REGISTER** unless he/she has a subsequent password file entry with an appropriately formatted comment field.

telephone

The telephone subfield has a maximum length of 15 characters

which may be any of the following:

0-9, -, (, ), x, blank

A password file entry having a telephone number longer than 15 characters will be rejected.

#### location

The location subfield has a maximum length of 12 characters, the only illegal character being a comma. BTL locations should be of the form XX.SHFY where,

XX = two-letter location code

S = building section number

H = hall letter

F = floor number

YY = room number

#### department

Users are divided into two categories -- direct and sponsored. Direct users are those employees currently reporting to a BTL supervisor at Columbus. Sponsored users are WECO employees, Telco employees, and BTL employees at other BTL locations. Each sponsored user has a sponsor who is a direct user. Userlist uses the department subfield to distinguish between direct and sponsored users.

The department subfield for a direct user consists of a capital D followed by a 4-digit department number. The department subfield for a sponsored user consists of the login id of the user's sponsor in lower case letters.

The department subfield must contain from 1 to 5 non-blank characters.

#### DIAGNOSTICS

Userlist issues two kinds of diagnostics to the standard error output -- fatal and non-fatal errors. A fatal error will occur if any of the following conditions are encountered:

1. No password file names were supplied as arguments.
2. The number of users found in the password file(s) exceeded 150.
3. Userlist could not open one of the named password files for reading.

A fatal error will cause userlist to issue an appropriate error message and to exit with a status of minus one (-1).

A non-fatal error will occur if the comment field cannot be extracted from a password file entry or if one of the formatting conventions described under **PASSWORD FILE FORMAT** is violated. If such an error occurs, the user will not appear on the **SCCS USERS REGISTER** unless userlist finds a subsequent password file entry for that user with an appropriately formatted comment field.

Userlist assumes that the first valid comment field found for a particular user is correct and uses that comment field to build his/her entry in the **SCCS USERS REGISTER**. If a subsequent comment field is encountered which differs from the first one found, an appropriate non-fatal error message will be issued.

**SEE ALSO**

passwd(5)

**BUGS**

Userlist sorts first by department number and then by last name. No sorting is done by first name. People with the same last name and different first names appear in random order within their department and last name grouping.