NAME

installf – add a file to the software installation database

SYNOPSIS

installf [**–c** *class*] *pkginst pathname* [*ftype* [*major minor*] [*mode owner group*]]
installf [**–c** *class*] *pkginst* –
installf **–f** [**–c** *class*] *pkginst*

AVAILABILITY

SUNWcsu

DESCRIPTION

installf informs the system that a pathname not listed in the **pkgmap**(4) file is being created or modified. It should be invoked before any file modifications have occurred.

When the second synopsis is used, the pathname descriptions will be read from standard input. These descriptions are the same as would be given in the first synopsis but the information is given in the form of a list. The descriptions should be in the form: *pathname* [*ftype* [*major minor*] [*mode owner group*]].

After all files have been appropriately created and/or modified, **installf** should be invoked with the **–f** synopsis to indicate that installation is final. Links will be created at this time and, if attribute information for a pathname was not specified during the original invocation of **installf**, or was not already stored on the system, the current attribute values for the pathname will be stored. Otherwise, **installf** verifies that attribute values match those given on the command line, making corrections as necessary. In all cases, the current content information is calculated and stored appropriately.

OPTIONS

–c *class* Class to which installed objects should be associated. Default class is **none.**

pkginst Name of package instance with which the pathname should be associated.

pathname Pathname that is being created or modified.

ftype A one-character field that indicates the file type. Possible file types include:

- **b** block special device
- **c** character special device
- **d** directory
- **e** a file to be edited upon installation or removal
- **f** a standard executable or data file
- **l** linked file
- **p** named pipe
- **s** symbolic link
- **v** volatile file (one whose contents are expected to change)
- **x** an exclusive directory

major The major device number. The field is only specified for block or character special devices.

minor The minor device number. The field is only specified for block or character special devices.

mode The octal mode of the file (for example, 0664). A question mark (**?**) indicates that the mode will be left unchanged, implying that the file already exists on the target machine. This field is not used for linked or symbolically linked files.

owner The owner of the file (for example, **bin** or **root**). The field is limited to 14 characters in length. A question mark (**?**) indicates that the owner will be left unchanged, implying that the file already exists on the target machine. This field is not used for linked or symbolically linked files.

group The group to which the file belongs (for example, **bin** or **sys**). The field is limited to 14 characters in length. A question mark (?) indicates that the group will be left unchanged, implying that the file already exists on the target machine. This field is not used for linked or symbolically linked files.

−f Indicates that installation is complete. This option is used with the final invocation of **installf** (for all files of a given class).

EXAMPLES

The following example shows the use of **installf,** invoked from an optional preinstall or postinstall script:

```
#create /dev/xt directory
#(needs to be done before drvinstall)
installf $PKGINST /dev/xt d 755 root sys ||
       exit 2
majno='/usr/sbin/drvinstall −m /etc/master.d/xt
   −d $BASEDIR/data/xt.o −v1.0' ||
       exit 2
i=00
while [ $i −lt $limit ]
do
  for j in 0 1 2 3 4 5 6 7
  do
    echo /dev/xt$i$j c $majno 'expr $i * 8 + $j'
       644 root sys |
    echo /dev/xt$i$j=/dev/xt/$i$j
  done
  i='expr $i + 1'
  [ $i −le 9 ] && i="0$i" #add leading zero
done | installf $PKGINST - || exit 2
# finalized installation, create links
installf −f $PKGINST || exit 2
```

SEE ALSO

pkginfo(1), **pkgmk**(1), **pkgparam**(1), **pkgproto**(1), **pkgtrans**(1), **pkgadd**(1M), **pkgask**(1M), **pkgchk**(1M), **pkgrm**(1M), **removef**(1M)

NOTES

When *ftype* is specified, all applicable fields, as shown below, must be defined:

FTYPE	REQUIRED FIELDS
p, x, d, f, v, or e	**mode owner group**
c or b	**major minor mode owner group**

The **installf** command will create directories, named pipes and special devices on the original invocation. Links are created when **installf** is invoked with the **−f** option to indicate installation is complete.

Links should be specified as *path1***=***path2*. *path1* indicates the destination and *path2* indicates the source file.

Files installed with **installf** will be placed in the class **none**, unless a class is defined with the command. Subsequently, they will be removed when the associated package is deleted. If this file should not be deleted at the same time as the package, be certain to assign it to a class which is ignored at removal time. If special action is required for the file before removal, a class must be defined with the command and an appropriate class action script delivered with the package.

When classes are used, **installf** must be used in one of the following forms:

installf −c class1 . . .
installf −f −c class1 . . .
installf −c class2 . . .
installf −f −c class2 . . .