NAME

mxarc – Unpack, list, or extract components from a Multics archive file

SYNOPSIS

mxarc **−u** **[−n]** **[−c** *control-file*] *Multics-Path1* *[... Multics-PathN]*
mxarc *−l* *Multics-Path1* *[... Multics-PathN]*
mxarc *−x* *[−n]* *Multics-Path* *component1* *[... componentN]*

DESCRIPTION

mxarc manipulates Multics archive files that have been previously reloaded by **mxload**. The . *archive* suffix must be supplied. Three operations are supported: *table* (−**t**), *extract* (−**x**), and *unpack* (−**u**). Only one of the three may be specified. The program can operate on archives reloaded with either **8bit** or **9bit** conversion modes.

If the −**t** option is selected, a table of contents is listed for each *Multics-Path* in the same format as Multics archive t.

If the −**u** option is specified, each *Multics-Path* file is unpacked into a directory of the same name, and the original *Multics-Path* file is deleted. When unpacking, the permissions, owner, and group (owner and group only if **mxarc** is being run by **super-user**) for the directory and the archive component files are set equal to the original permissions, owner, and group of *Multics-Path*. The directory's permissions are modified to include **x** permission for all users, and the directory's access and modification times are set equal to those of *Multics-Path*. The modification time of each component file is set to the modification time from its archive header, and the access time is set to the updated time from its archive header. The access mode in archive component headers is not used.

If the **-x** option is specified, only one *Multics-Path* may be specified, but individual archive components may be named. The named archive components (or all, if none are named) are extracted into the current directory. When extracting components, the permissions, owner, and group are set according to normal UNIX semantics, unless modified by the options in a control file specified by −**c**. The *component* names are names only, not complete pathnames, so that components may be extracted only into the current directory. Problematic component names are translated and made unique as for **mxload**.

By default, **mxarc** lists the files it is creating or writing into. The −**n** option suppresses this.

The −**c** option may be used to specify a control file that sets defaults for unpacking; normally, the standard **mxload** defaults are used. Object statements and most option statements in the control file are ignored.

By default, **mxload** does not unpack archives, but the behavior of **mxarc −u** can be requested from **mxload** with the **unpack** option in an **mxload** control file.

The **mxarc** command is not intended to provide a functional replacement of the Multics archive command. If such functions are required, the component files extracted from an archive should be re-packaged into another form, such as a UNIX **tar** file that can be manipulated with the **tar**(1) command.

OPTIONS

−**t**   List the components in each *Multics-Path*.

−**u**   Unpack each *Multics-Path*, extracting all components into a directory of the same name.

−**x**   Extract named *components* from the *Multics-Path* into the working directory. If no *components* are named, all are extracted.

−**n**   Do not produce a map when extracting or unpacking.

−**c** *control-file*
      Specifies a control file to modify the options for unpacking.

ERRORS

The unpacking process begins by validating the input file. If it appears to be a reasonable archive, it is then renamed (to a unique name) and the new directory is created to hold the components. If the conversion is successful, the input file is deleted. If an error occurs, nothing is deleted, and an error message is printed to

identify the offending (now renamed) input file.

SEE ALSO

mxload *User's Manual*, **mxload**(1)