Name

@recipe - format of the files used to recreate ISIS disk images

Description

The @recipe files are used to define the contents of an isis disk so that it can be reconstructed as required.

Additionally, they can be used to record supplementary information about the disk.

There are four types of information lines recorded in an @recipe file

1. Lines beginning with a #. These are comment lines and can be freely interspersed with other lines.
2. Lines starting with a keyword followed by a colon, followed by a text value. These are metadata lines, they can occur in any order, currently a limited number of these are processed, the rest are ignored.
3. The metadata line with keyword Files. This separates the metadata from the description lines
4. Description lines, these define the file content in ISIS.DIR order

Note the mkidsk tool uses a block of comments at the start of the file as the comment for any generated IMD file, with any single space after the # ignored. Additionally, if the first comment starts with IMD then this is used as the IMD signature.

Metadata

The following metadata is processed

label:	label_name	used to record the label name stored in ISIS.LAB. To be consistent with ISIS, label_name should be up to 6 alphanumeric characters, followed optionally by a dot or dash and up to 3 alphanumeric characters.
version:	nn	used to record the version reference in ISIS.LAB. It can be up to 2 characters
format:	disk_format	the disk format used. It can be one of ISIS II SD, ISIS II DD or ISIS III.
skew:	skew_Info	this record non-standard skew information in ISIS.LAB. It is very rarely needed as the skew is normally determined by the format, specification. The skew_info is specified as three characters, representing the skews for track 0, 1 and 2 onwards. The characters are the ascii equivalents of the letter '0' + the skew.
os:	os_system	the operating system on the disk. One of NONE, ISIS ver, PDS ver, or OSIRIS ver. Where ver is the specific version.

Description Lines

The individual description lines specify the files used in ISIS.DIR order. Each line is of the form

ISISName,attributes,checksum,location

The commas must appear even if the field is blank

Where

ISISName	is then name used in the ISIS.DIR. It should be up to 6 alphanumeric characters optionally followed by a dot and up to 3 alphanumeric characters.
attributes	these are the files attributes and can be any of F Format I Invisible S System W Write Protected

checksum	this is the SHA1 checksum of the file. Its main purpose is to allow lookup of files in a central file repository.	
location	this is either a special marker or the location of the file to use as follows:	
	AUTO	the file is auto generated. The line is optional but can be used to specify non-standard attributes
	DIR	the file was an unsaved listing file – now depreciated
	ZERO	the file has zero length and is auto generated
	ZEROHDR	the file has zero length but the header is allocated.
	*text	problems with the file, the text explains. The file is ignored
	path	the location of the file to load. A leading ^ is replaced by the file repository path

Example

The example below was generated from disk 95000333.imd from http://bitsavers.trailing-edge.com/bits/Intel/MDS/MDS_II/isis_II/

```
# IMD 1.17: 12/09/2009 18:51:04
# ISIS-II PL/M-86 COMPILER
# P/N 9500033-03 SD
# (C) INTEL 1978
label: 950033-03
version: 34
format: ISIS II SD
os: NONE
Files:
ISIS.DIR,FI,jBzXPvdVbN4U9i4uadsSkfg2Vik,AUTO
ISIS.MAP,FI,1Pb9y6wi5OVSEfXwOivMbjZm4q8,AUTO
ISIS.T0,FI,Fc/5LJAGrWS8Kz1X0GgSF8Dln5o,^Intel80/isis.t0_ns/isis.t0
ISIS.LAB,FI,6Nvu5byTGhVskLLIoWNrJ6QHtB0,AUTO
PLM86,W,/60LQe2UCXMh8Dc942v3AvNF9Qg,^Intel80/plm86_1.2/plm86
PLM86.OV0,WI,VI29iYKVpy9GeqiX5R9Ca1bh63Y,^Intel80/plm86_1.2/plm86.ov0
PLM86.OV1,WI,KmLgmu1ogNu2ZD/lmEwh8R8tHDo,^Intel80/plm86_1.2/plm86.ov1
PLM86.OV2,WI,zsn/0+inB0y8MKp0t+pgW2eNCUo,^Intel80/plm86_1.2/plm86.ov2
PLM86.OV3,WI,6BHF8ZPZwNid/XmB+qM4HPOpSqA,^Intel80/plm86_1.2/plm86.ov3
PLM86.OV4,WI,S9YCuJ/7oe2g8RPK0G96pGUcVV0,^Intel80/plm86_1.2/plm86.ov4
PLM86.OV5,WI,vJv6r6B4WFNnIgcyiQbNnypA93M,^Intel80/plm86_1.2/plm86.ov5
PLM86.OV6,WI,0tklWqAv6ITm5iWiEgaArpXUaSw,^Intel80/plm86_1.2/plm86.ov6
PLM86.LIB,W,QW0KTjXZ8+UJxblvn65nGQL6Qsc,^Intel80/plm86_1.2/plm86.lib
IXREF,W,TdfNx2lHaV891ycMS5MauUtSAYk,^Intel80/ixref_1.2/ixref
```

Notes

Although primarily intended for capturing the information to recreate an ISIS disk image, it is possible to write @recipe files to create bespoke disks. See the mkidsk documentation on how to do this.

See Also

unidsk and mkidsk tools

repository and support tools cache.pl, refresh.pl, collect.pl