

ΛΕΙΤΟΥΡΓΙΚΑ ΣΥΣΤΗΜΑΤΑ ΧΕΙΜ 2019

ΤΕΤΑΡΤΗ ΠΡΟΓΡΑΜΜΑΤΙΣΤΙΚΗ ΑΣΚΗΣΗ

Ευστρατία Ευαγγελινού	sdi1500038	AM 1115201500038
Βασίλειος Μαργιώλος	sdi1500090	AM 1115201500090

CFS FILE STRUCTURE

binary .cfs file is organized in two parts:

1st (METADATA)

- entities total number in file system
- next empty spot to store future entities (is the start to a linked list of free spots)
- block size (defaults to 1024 bytes)
- filename size (defaults to 20 chars)
- max size of files in bytes(applies to all entities) (defaults to 1024 bytes)
- max entities per directory (defaults to 20 entities)

2nd (ENTITIES)

Each entity is represented by a struct (cfs_elmnt) followed by **max_file_size** bytes to store the contents of the entity.

Contents of file:

- data of file.

Contents of directory:

- unsigned int (entities in this directory)
- pairs of char[filename_size] & unsigned int (symbolic name & nodeid)

Contents of link:

- unsigned int (nodeid of linked entity)

FUNCTIONALITY

1.cfs_workwith:	yes		9.cfs_ln:	yes
2.cfs_mkdir:	yes		10.cfs_mv:	yes
3.cfs_touch:	yes		11.cfs_rm:	yes
4.cfs_pwd:	yes		12.cfs_import:	yes
5.cfs_cd:	yes		13.cfs_export:	no
6.cfs_ls:	yes		14.cfs_create:	yes
7.cfs_cp:	yes		15.cfs_exit:	yes
8.cfs_cat:	no			

FILE OUTPUTS

Program creates binary files with the suffix .cfs

SEPARATE COMPILATION

Separate compilation of the program,divided into various modules.

MAKEFILE AND CMD LINE ARGUMENTS

compile command: make all

run command: ./cfs

clean command: make clean