

fescape

Filter unprintable characters from input stream.

Design Considerations

Short and simple. Follow the original Unix philosophy of a program doing just one thing where both input and output are streamed and are therefore able to function well in a pipe sequence.

File Locations

- Binary executable (**fescape**) located in `~/bin`
- Manpage (**fescape.1**) located in `/usr/local/share/man/man1`

Arguments

- **file** : file(s) to display or stdin if none specified

Switches

- **-c, --count** : display a count for repeated characters instead of the characters themselves
- **-h, --help** : display usage
- **-o, --octal** : display octal codes instead of default hex codes

Key Functions

`main()`

- Handle switches
- Handle arguments
- Handle actions

`void usage(const char *program)`

- Display help to user

`fescape(FILE *input_stream, FILE *output_stream, bool repeats,
bool octal)`

- Performs the filter function.

Results

Haven't discovered any issues yet.

Lessons

1. `**##__VA_ARGS__**`: GNU macro feature useful for variadic functions.
2. **VS Code**: VSC doesn't play nice with `make(1)` when debugging from within VSC. You gotta pick a lane.

TODO

- ☒ First pass of design spec.
- ☒ Figure out best way to handle variadic function fronted by macro.
- ☒ Optimize functions in `system-actions.c`.