

zcutter Documentation

William Stearns

Tue Feb 13 14:03:25 EST 2024

Contents

Module zcutter	1
Functions	1
Function Debug	1
Function correct_var_format	1
Function create_simulated_headers	2
Function data_line_of	2
Function fail	2
Function link_or_copy	2
Function mkdir_p	2
Function open_bzip2_file_to_tmp_file	2
Function open_gzip_file_to_tmp_file	2
Function print_line	3
Function print_sim_tsv_header	3
Function process_log	3
Function process_log_lines	3
Function relative_touch	3

Module zcutter

Python replacement for zeek-cut. Handles tsv and json input and output files.

Functions

Function Debug

```
def Debug(  
    DebugStr: str  
) -> None
```

Prints a note to stderr.

Function correct_var_format

```
def correct_var_format(  
    field_str_value: str,  
    this_field_name: str,  
    this_file_path: str,  
    correct_field_types: Dict,  
    cl_args: Dict  
) -> Union[str, int, float, bool, list]
```

Json requires numbers (ints and floats) and boolean values to be presented as such, rather than values inside strings. This function takes a specific field and returns it as the correct python type so it can be correctly formatted as json.

Function create_simulated_headers

```
def create_simulated_headers() -> tuple[typing.Dict, typing.Dict, typing.Dict]
```

Create dictionaries with simulated header blocks, “#fields” lines, and “#types” lines for each file type.

Function data_line_of

```
def data_line_of(
    field_name_list: List[str],
    field_value_list: List,
    input_type: str,
    cl_args: Dict,
    zeek_file_path: str
) -> str
```

Provide a formatted output line from the raw data fields.

Function fail

```
def fail(
    fail_message: str
) -> None
```

Print a failure notice and exit.

Function link_or_copy

```
def link_or_copy(
    source_dirname: str,
    source_basename: str,
    destdir: str,
    dest_relative_file: str
) -> None
```

Create a hardlink from source to destdir (which may not yet exist.)

Function mkdir_p

```
def mkdir_p(
    path: str
) -> None
```

Create an entire directory branch. Will not complain if the directory already exists.

Function open_bzip2_file_to_tmp_file

```
def open_bzip2_file_to_tmp_file(
    bzip2_filename: str
) -> str
```

Open up a bzip2 file to a temporary file and return that filename.

Function open_gzip_file_to_tmp_file

```
def open_gzip_file_to_tmp_file(
    gzip_filename: str
) -> str
```

Open up a gzip file to a temporary file and return that filename.

Function `print_line`

```
def print_line(
    output_line: str,
    out_h: Optional[<class 'TextIO'>]
) -> None
```

Print or log the output line. If `out_h` is set, use that as a handle to which to write the line, otherwise print to stdout.

Function `print_sim_tsv_header`

```
def print_sim_tsv_header(
    line_dict: Dict,
    requested_fields: List,
    cl_args: Dict,
    output_h: Optional[<class 'TextIO'>]
) -> None
```

Generate a simulated TSV header for the case where we input json and output in TSV.

Function `process_log`

```
def process_log(
    log_source: str,
    fields: list[str],
    cl_args: Dict
) -> None
```

Process a single source file or stdin.

Function `process_log_lines`

```
def process_log_lines(
    log_file: str,
    original_filename: str,
    requested_fields: List[str],
    cl_args: Dict
) -> None
```

Will process all the lines in an uncompressed log file.

Function `relative_touch`

```
def relative_touch(
    old_file: str,
    new_file_to_change: str
) -> None
```

Make the modification time and atime of `new_file_to_change` to be equal to those of `old_file`.

Generated by *pdoc* 0.10.0 (<https://pdoc3.github.io>).