

NAME

`sd_tbl` -- extract requested information from signal distributor table file

SYNOPSIS

```
#include <sdtbl.h>

sd_tbl(funcnt, fd, key, imax, iarray);
int funcnt, fd, imax;
int iarray[];
char *key;

sdtb_fr(fd, key, imax);
sdtb_usd(fd, imax, iarray);
sdtb_ssd(fd, imax, iarray);
```

DESCRIPTION

`Sd tbl` searches an appropriate signal distributor table file and extracts the requested information specified by `funcnt` and `key`. If an error is detected a negative value is returned as discussed below.

The argument `funcnt` identifies the type of function that is to be performed. Examples are `SDF_FR`, to extract the frame type of a specific circuit and `SDF_ALL`, to extract all frame types for a specified circuit type.

The argument `fd` is the file descriptor of an opened signal distributor table file.

The argument `key` is the address of a null terminated character string identifying the specific circuit or circuit type for which the information is to be extracted.

The argument `imax` is an integer specifying the maximum number of circuits of type `key` that can be provided.

The argument `iarray`, if non-zero, specifies the address of a user supplied integer array of size `imax` which stores the frame types extracted by the function `SDF_ALL`.

To simplify the user's interface macros have been defined to access `sd_tbl`. A brief description of the macros and their functions are given below.

```
sdtb_fr(fd, key, imax);
```

Extracts the frame type for a specific circuit. If the circuit does not exist a value of `SDR_CR` is returned. If the specified circuit does exist the value `>SDR_NORM` is returned to the calling program.

```
sdtb_usd(fd, imax, iarray);
```

Extracts the frame types for all supported USD circuits.

The value **SDR_NORM** is returned upon completion.

sdtb_ssd(fd,imax,iarray);

Extracts the frame type for all supported SSD circuits.
The value **SDR_NORM** is returned upon completion.

The arguments to the macros are the same as those described above.

FILES

/usr/include/sdtbl.h which specifies the structure of a signal distributor table file entry and defines the return values and macro calls.

/usr/include/sdtint.h which initializes an array of character strings to valid frame types.

LIBRARY

/lib/libl.a

DIAGNOSTICS

The error codes returned by this subroutine are:

SDR_FUNC The specified function is invalid.

SDR_READ Error detected while trying to read the signal distributor table file.

BUGS