

Typed Data

Apart from adding function calls the code, a programmer must also provide an XML (eXtensible Markup Language)

```
String config_filename /* the name of the config file*/
/* to be parsed */
```

Output parameter

```
TDTConfig tc /* a parsed copy of the configuration file */
```

Example:

```
tc = tdt_configure("config.xml");
```

2.2.2 tdt_open()

ose

tdt_open() **opens**

Output

2.3 Compiling and linking

2.3.1 Compiling the library

The TDT can be compiled as a static library, libtdt.a. This must be in the library path of the development environment, or a directory specified by the -L flag in gcc. A make file is included with the source files. Running "make lib" from within the tdt source directory will rebuild the TDT library.

wilddthe

2.3.2 Linking with your own programs

55 /* . . . and write

```
INTEGER tdtstate  
INTEGER tdtconfig
```

3.2 User functions ~~functions~~ for configuration()

Read and parse the specified configuration file.

Input parameter

C the name of the configuration file
configfilename

Output parameter

C a parsed

C a completed TDTState variable
tdtstate

Examples:

```
CALL tdt_fopen (tdtstate, tdtconf, "client_to_server")
```

3.2.3 tdt_fwrite()

Purpose

To write data to the connection given by the TDTState parameter as per the XML identifier string (parameter)

3.3 Compiling and link

3.3.1 Compiling the

4.2.3 read

Purpose

To read the data specified by the givenT

4.2.6 end

Purpose

Closes connections or open files and releases TDT structures.

Input parameters

None

Example

```
tdt.end()
```

4.3 Example programs

```
1 from tdt import TDT  
2  
3 tdt = TDT ()
```


5.7 Example

The following XML

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<data_desc>

    <decl name="vardouble">double</decl>

    <decl name="astruct">
        <struct>
            <decl name="elem1">
                <array size="2">int</array></decl>
            <decl name="elem2">double</decl>
        </struct>
    </decl>

    <decl name="varint">int</decl>

    <decl name="dyn">
        <array size="0">double</array>
    </decl>

</data_desc>
```

represents describes the data being transferred in the client program above. It describes the following C declarations:

```
double vardouble;

struct {
    int elem1[2];
    double elem2;
} astruct;

int varint;
double *dynarray;
```

6 TDT Configuration files

The configuration files used by TDT are also written in XML.

6.1 <program> tag

The do

7.1 C Examples

The sample C programs (`testclient.c` and `testserv.c`)

"make clean" will remove old object (*.o) files from executable programs from
the **obj** directory. To keep old objects, add **-f** to the make command.
The **obj** directory is located at **src/obj**.

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