



EFEU interface to Tcl/Tk

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Preface

The Library **ETK** represents a interface to the Tcl-Interpreter and provides the use of Tk-widgets in context of EFEU.

The command **etk** is a version of **esh** with builtin interface to Tcl. On systems with shared library, **esh** could be used directly by activation the interface with

```
loadlib("ETK", "SetupETK");
```

The interface allows the simultaneous use of Tcl and the EFEU interpreter language. Details to the interface are found in *etk(1)*. An overview of the EFEU interpreter language is given in *esh(1)*.

The interface works with different versions of Tcl/Tk. Older Versions of Tcl use only strings for exchanging data values between the two interpreters. Newer versions kann exchange **bool**, **int** and **double** values directly.

This manpage describes primarily the interface to Tcl/Tk and does not replace a Tcl/Tk documentation.

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Commands

Functions

NAME

ETK – Tcl/Tk interface type

SYNOPSIS

```
#include <GUI/ETK.h>
ETK *ETK_create (void);
```

DESCRIPTION

The function `ETK_create` creates a interface to the Tcl/Tk interpreter.

SEE ALSO

refdata(3), *ETK_eval(3)*, *ETK_func(3)*, *ETK_parse(3)*, *ETK_var(3)*, *SetupETK(3)*, *Tcl_CreateInterp(3)*, *Tcl_CreateCommand(3)*, *Tk_Init(3)*, *ETK(7)*.

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ETK_eval – evaluate tcl expression

SYNOPSIS

```
#include <EFEU/object.h>
EfiObj *ETK_obj (Tcl_Obj *obj);
int ETK_eval (ETK *etk, char *cmd);
EfiObj *ETK_result (ETK *etk);
```

DESCRIPTION

The function `ETK_obj` converts a object of Type `Tcl_Obj` to a object of type `EfiObj`.

The function `ETK_eval` evaluates the tcl command *cmd* and returns 1 on success and 0 on faolure.

The function `ETK_result` returns the result of the last tcl command. Die Funktion liefert das Resultat des letzten Tcl-Kommandos.

SEE ALSO

ETK(3), *ETK_eval(3)*, *ETK_func(3)*, *ETK_parse(3)*, *SetupETK(3)*, *Tcl_GetVar2Ex(3)*, *Tcl_SetVar2Ex(3)*, *ETK(7)*.

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ETK_func – define function as tcl command

SYNOPSIS

```
#include <GUI/ETK.h>
void ETK_func (ETK *etk, IO *io);
```

DESCRIPTION

The function `ETK_func` reads a function definition from *io* and registers it as Tcl command.

SEE ALSO

ETK(3), *ETK_eval(3)*, *ETK_parse(3)*, *ETK_var(3)*, *SetupETK(3)*, *Tcl_CreateCommand(3)*, *ETK(7)*.

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ETK_parse – parse tcl command

SYNOPSIS

```
#include <GUI/ETK.h>
EfiObj *ETK_parse (ETK *etk, IO *io);
```

DESCRIPTION

The function `ETK_parse` parses a tcl command from *io* and returns a object of Type `_Expr_`. Die Funktion `ETK_parse` liest ein Tcl-Kommando aus der IO-Struktur *io* und liefert ein Objekt vom Type `_Expr_`.

SEE ALSO

ETK(3), *ETK_eval(3)*, *ETK_func(3)*, *ETK_var(3)*, *SetupETK(3)*, *ETK(7)*.

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ETK_var – access to Tcl variables

SYNOPSIS

```
#include <EFEU/object.h>
EfiObj *ETK_var (ETK *etk, const char *name);
```

DESCRIPTION

The function `ETK_var` returns an lvalue object to access the Tcl variable *name*. If the variable *name* was not used, the type is `str` otherwise it depends on the current assignment of *name*.

SEE ALSO

ETK(3), *ETK_eval(3)*, *ETK_func(3)*, *ETK_parse(3)*, *SetupETK(3)*, *Tcl_GetVar(3)*, *Tcl_SetVar(3)*, *ETK(7)*.

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ETKInfo – command information browser

SYNOPSIS

```
#include <GUI/ETK.h>  
void ETKInfo (const char *name);
```

DESCRIPTION

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SetupETK – setting up esh-interface to TK

SYNOPSIS

```
#include <GUI/ETK.h>
void SetupETK (void);
```

DESCRIPTION

The function `SetupETK` expands the esh-Interpreter to use tk-widgets. This function is implicitly called on loading the shared library.

SEE ALSO

ETK(3), *ETK_eval(3)*, *ETK_func(3)*, *ETK_parse(3)*, *ETK_var(3)*, *ETK(7)*.

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Macro packages and conventions

NAME

ETK – interface to Tcl/Tk

SYNOPSIS

```
#include <GUI/ETK.h>
```

```
typedef struct {  
    REFVAR;  
    Tcl_Interp *interp;  
    int tkstat;  
} ETK;
```

DESCRIPTION

The structure **ETK** represents a connection to the Tcl/Tk interpreter.

SEE ALSO

ETK(3), *ETK_eval(3)*, *ETK_func(3)*, *ETK_parse(3)*, *ETK_var(3)*, *SetupETK(3)*.

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