

Routine

COLLABORATORS

	<i>TITLE :</i> Routine		
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WRITTEN BY		March 3, 2023	

REVISION HISTORY

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Chapter 1

Routine

1.1 Routine Descriptions Guide

Routine.DESC file for DOOR.LIB

Designed, compiled, and copyright 1993 by
Rick Rumer, aka The Technician

Distribution Notes

Recommendations

Library Functions

History of Changes to DOOR.LIB

Support and Assistance

1.2 distribution

I grant the right to use this code in any Tempest BBS application, for whatever reason, to any individual willing to use it. The author of Tempest BBS, Tim Hatzenbeler, may use any or all parts of this code as he sees fit. I grant permission for this to be released to the general public if he decides he wishes to.

If for some reason, Fred Fish decides that this code should be released to the public, he is ALSO granted permission, even though this Linktime-Library is Tempest BBS specific.

1.3 recommend

Due to the size of the documentation, it is HIGHLY recommended that you print out the Routine.DESC file for off-line reference. The pages have been designed to fit on a standard 60 line page, and should print

out fine on any printer. I have tried to make it one command per page, but several commands didn't fit, so you'll find the EXAMPLE code on the following page. I Do NOT recommend trying to print this .GUIDE file.

Note that pl() and CloseStuff() have been ALTERED from their original functions! They still perform the minimal duty they did, but now are more powerful!

1.4 techsupp

If you want commands added, or you find a bug, PLEASE call:

```

      _____|____
      <_____|< >=
                | \ \
                /X\ > >
                __/ \_/ /
                // \ , ' /
                / \_/ /
                / \ )
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                // \ / -- \ _____ |
                // / / / \ | ||
                \ | \ | \ | || ||
                || || || ||
                || || || ||
                |_ \ |_ \ |_ \

```

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1.5 routines

- AMPM
- LockedOutText
- CheckDoor
- LOG
- CheckKey
- pl
- CloseStuff
- prompt
- commas

Random
DEBUG
SetValue
DOORIO
ShowFile
FindUserSlot
TDHOTKEY
getkey
UserTime
GetStr
XmodemDownload
GetUserTime
yn
GetValue
ZmodemDownload
GetWorkDir
HitReturn
hotkey
input
LineInput
LoadSystemData

1.6 checkkey

NAME USE : DOOR only

```
int CheckKey()
```

SYNOPSIS

```
#include <stdio.h>  
  
ret = CheckKey()  
  
int ret;      return code
```

DESCRIPTION

Check to see if user hit a key while in a loop, and if they did, set a flag. (Does NOT wait for input, only checks to see if a key was pressed during some other operation, and then is queued up....)

Added (VERSION 1.0)

RETURNS

A return value of 0 indicates all went well, and no key was pressed. A return of 1 indicates that there was indeed a character pressed (Such as an abort key). This routine currently does NOT return the actual key that was pressed.

EXAMPLE

```
#include <stdio.h>
int IO;
void main(void)
{
    int x;
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    for (x=0;x<900;x++) /* A simple loop counts 0->900 */
    {
        IO=CheckKey(); /* The actual checking */
        if(!IO) /* if(IO!=0) do this, else go on*/
        {
            /* User pressed a key, so jump somewhere, or print
                something */
            pl("You pressed a key!!! Aborting everything!\r\n");
            pl("Counter was at : %d\r\n",x); /* Note NEW pl() usage! */
            CloseStuff(); /* We aborted it all */
        }
        /* else continue with loop */
    }
    pl("You didn't press any key, so I went on and on...\r\n");
    CloseStuff();
}
```

1.7 doorio

NAME USE : DOOR only

```
int DOORIO();
```

SYNOPSIS

Not callable by users - STRICTLY for internal use!

DESCRIPTION

This routine serves two purposes. First it checks for a lost carrier, or anything else that would signify that the door should be abruptly closed. NO actual closing is done here, but the EXIT_FLAG variable is set appropriately (to a "1").

Second, it processes the incoming/outgoing "messages" between Tempest BBS and your DOOR program. This is the main link between Tempest and your DOOR. Without this routine, you cannot use any of the commands in here. This section will be automagically added to every door program.

Added (VERSION 1.0)

RETURNS

If this returns a 0, a "LOSS CARRIER" or similar event has occurred, and the EXIT_FLAG is set for the door to process. Usually this is done with :

```
#define DROP      if(EXIT_FLAG) CloseStuff();
```

SEE ALSO

CheckDoor()

1.8 getvalue

NAME

USE : DOOR only

```
int GetValue(int x);
```

SYNOPSIS

```
#include <stdio.h>
```

```
status = GetValue(x)
```

```
int status;    return value
int x;        function to retrieve
              0 = ANSI status
```

DESCRIPTION

This function retrieves current values set in the BBS itself. the only current option is the User's current choice of ANSI, on or off.

Added (VERSION 1.0)

RETURNS

A 0 indicates the user is NOT using ANSI, and any color or ANSI positioning codes sent will be stripped out by the BBS.

EXAMPLE

```

#include <stdio.h>
void main(void)
{
    int AnsiColor;
    char ANSI[20];

    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    AnsiColor=GetValue(0);
    if(AnsiColor) /* If AnsiColor==0, it's off */
    {
        strcpy(ANSI,"OFF");
    }
    else
    {
        strcpy(ANSI,"ON"); /* Send'em all the ANSI you want */
    }
    pl("You have ANSI : %s\r\n",ANSI);
    CloseStuff();
}

```

SEE ALSO

SetValue()

1.9 random

NAME USE : DOOR only

```
int Random(int x);
```

SYNOPSIS

```

#include <stdio.h>

RndNum = Random(range);

int RndNum; /* A random number between 0 and x */
int range; /* The highest possible number you want */

```

DESCRIPTION

This function is passed an integer value greater than 0, and the routine will return an integer value in the range of 0 to range. This is a `_seed` generated random number, based on the VBLANK signal, for the best possible random numbers.

Added (VERSION 1.0)

RETURNS

A random integer value between 0 and range.

EXAMPLE

```
#include <stdio.h>
void main(void)
{
    int x=10;                /* Select range: 0-10          */
    int RndNum;
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    RndNum = Random(x);
    pl("Random number was : %d\r\n",RndNum);
    CloseStuff();
}
```

1.10 checkdoor

NAME USE : DOOR only

```
void CheckDoor(void);
```

SYNOPSIS

Not callable by users - STRICTLY for internal use!

DESCRIPTION

Checks for validity of a door, as a part of DoorStart();

Added (VERSION 1.0)

RETURNS

None. (Alters pointers)

1.11 closestuff

NAME USE : DOOR only

```
void CloseStuff(void);
```

SYNOPSIS

```
#include <stdio.h>
```

```
CloseStuff();
```

DESCRIPTION

Closes down the door. All open msgs that have not been replied to are taken care of, then the port deleted. After all housekeeping is finished, the door will exit with exit(0);

NOTE: This routine did NOT use to exit, but would let the door run. As of DOOR.LIB V1.0, this has been CHANGED, so that it WILL exit! This potentially avoids having lost tasks running.

Added (VERSION 1.0)

RETURNS

None.

EXAMPLE

```
#include <stdio.h>
void main(void)
{
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    /* You would usually do something here.... */
    CloseStuff(); /* Close the door */
}
```

1.12 getkey

NAME

USE : DOOR only

```
void getkey(char string[]);
```

SYNOPSIS

```
#include <stdio.h>
```

```
getkey(char string[]);
```

```
char string[255]; /* The key pressed */
```

DESCRIPTION

This function is identical to hotkey(), with one exception. This routine does NOT filter out the cursor keys. This would be best used in a Full Screen Editor type function. (Which is what it was added for)

Added (VERSION 1.0)

RETURNS

The key(s) pressed by the user. An input style function.

EXAMPLE

```
#include <stdio.h>
void main(void)
{
    char SomeChar[5], EndResult[255];
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    pl("Please enter something.... Anything!\r\n");
    for(x=0;x<=100;x++) /* Scan up to 100 times */
    {
        getkey(SomeChar);
        if(SomeChar[0]==13) break; /* Aborted by pressing RETURN */
        if(SomeChar[0]=='Y') break; /* Aborted by pressing "Y" */
        if(SomeChar[0]=='N') break; /* Aborted by pressing "N" */
        strcat(EndResult,SomeChar);
    }
    if(EndResult[0]!='\0' || EndResult[0]=13) /* NULL or RETURN */
    {
        pl("You typed NOTHING!\r\n");
    }
    else
    {
        pl("You typed : %s\r\n",EndResult);
    }
    CloseStuff(); /* Close the door */
}
```

SEE ALSO

hotkey(), TDHOTKEY(), input(), LineInput(), prompt()

1.13 getstr

NAME USE : DOOR only

```
void GetStr(char string[],int opt);
```

SYNOPSIS

```
#include <stdio.h>

GetStr(string,What)
```

```

char string[255];      variable to hold the retrieved data
int What;             What data to retrieve from the BBS

```

DESCRIPTION

Retrieves various data from the BBS structures located in RAM, depending on the value of the What variable.

Table of various values What can be :

- 0 - The path the BBS was loaded with.
- 1 - The path to the accounts data file.
- 2 - The path to the catalog files are kept.
- 3 - The path to the temporary directory.
- 4 - The path to the Text directory.
- 5 - The path to the Describe directory.
- 6 - The path to the Voting Dir.
- 7 - The path where the optional files are kept.
- 8 - The path where the Modules are kept.
- 9 - The path where the new user answers are kept.
- 10 - The path where sysop uploads are kept.
- 11 - The path where the aborted uploads are kept. (Resume dir)
- 12 - The path where uploads are kept when they're being uploaded. (work dir)
- 13 - The path where doors may be kept.
- 14 - The path where your log files are kept at.
- 15 - Get a full date & time string
- 16 - Get the current date
- 17 - Get the current time
- 18 - Get the system name of the bbs
- 19 - The Baud of the online caller.

Added (VERSION 1.0)

RETURNS

None. Variable Pointer string is altered.

EXAMPLE

```

#include <stdio.h>
void main(void)
{
    int What=0;
    char string[255];

    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ↔
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ↔
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    GetStr(string,What); /* Get the BBS path, usually Tempest: or BBS: */
    pl("The BBS path is : %s\r\n",string);
}

```

```

What+=1;          /* What = What + 1, ie now it's 1 */
GetStr(string,what);
pl("Your accounts.data file is at : %s\r\n",string);
What+=1;          /* What = What + 1, ie now it's 2 */
GetStr(string,what);
pl("Your catalog files are in : %s\r\n",string);
CloseStuff();     /* Close the door */
}

```

1.14 getusertime

NAME USE : DOOR only

```
void GetUserTime(char string[]);
```

SYNOPSIS

```

#include <stdio.h>

void GetUserTime(char string[]);

char string[255]; /* number of minutes left in "char" format */

```

DESCRIPTION

This function will enable you to display the minutes that a user has remaining online in a string format. To convert this to a number for mathematical purposes, simply reference the example below.

Added (VERSION 1.0)

RETURNS

The minutes remaining online for the user.

EXAMPLE

```

#include <stdio.h>
void main(void)
{
char string[255];
int HowMuch;
if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
*/
{
printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
n");
exit(0);
}
pl("OK.. In the door now....\r\n");
GetUserTime(string); /* Get the time left online */
pl("Warning! Only %s Minutes left online!\r\n",string);
HowMuch=atoi(string);
if(HowMuch < 15)
{

```

```

    if(HowMuch < 10)
    {
        if(HowMuch < 5)
        {
            if(HowMuch <= 1)
                pl("EXIT IMMEDIATELY! YOU ARE OUT OF TIME!!\r\n"); goto Continue;
            }
            else pl("FIVE MINUTE WARNING!\r\n"); goto Continue;
        }
        else pl("TEN MINUTE WARNING!\r\n"); goto Continue;
    }
    else pl("FIFTEEN MINUTE WARNING!\r\n"); goto Continue;

    pl("You've got plenty of time left! Have fun!\r\n");
    Continue:
    /* Your other stuff here.... then check again, etc... */
    CloseStuff();
}

```

SEE ALSO

UserTime()

1.15 getworkdir

NAME USE : DOOR only

```
void GetWorkDir(char string[]);
```

SYNOPSIS

```

#include <stdio.h>

void GetWorkDir(char string[]);

char string[255]; /* Path to #?.Data files */

```

DESCRIPTION

This command tells you where the #?.data files can be found. If you use the normal setup, this will be "Tempest:Setup/". This command is here because it can be somewhere else if the SYSOP chose to do that. The files located in that directory are currently :

BAUD.data	Keys.data
Bulletins.data	MESSAGES.data
Color.data	Modem.data
CONFIG.data	PRESETS.data
Custom.data	Protocol.data
Doors.data	Questions.data
ExtraPaths.data	Reserved.data
FILES.data	RunTime.data
Internal.data	

Added (VERSION 1.0)

RETURNS

None. Alters pointer to show complete path to the #?.Data files.

EXAMPLE

```
#include <stdio.h>
void main(void)
{
    char string[255];

    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    GetWorkDir(string);
    pl("The path to your #?.Data files is : %s\r\n",string);
    CloseStuff();      /* Close the door */
}
```

1.16 hotkey

NAME USE : DOOR only

```
void hotkey(char string[]);
```

SYNOPSIS

```
#include <stdio.h>

void hotkey(char string[]);

char string[5];    /* Key Pressed by user */
```

DESCRIPTION

This waits until 1 key has been pressed. It does not count control characters, nor cursor keys.

Added (VERSION 1.0)

RETURNS

None. Alters pointer to contain the key pressed. (RETURN=13 or '\n')

EXAMPLE

```
#include <stdio.h>
void main(void)
{
```

```

char string[255];

if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
  */
{
  printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
    n");
  exit(0);
}
pl("OK.. In the door now....\r\n");
hotkey(string); /* Wait for an inputted character */
pl("The key you pressed was : %s\r\n",string);
CloseStuff(); /* Close the door */
}

```

SEE ALSO

TDHOTKEY(), input(), LineInput(), getkey()

1.17 input

NAME USE : DOOR only

```
void input(char string[],int len);
```

SYNOPSIS

```

#include <stdio.h>

void input(char string[],int len);

int len; /* Number of allowed characters */
char string[255]; /* The string entered */

```

DESCRIPTION

This command accepts input from the user until either the user hits return, or they enter the maximum number of characters allowed. if they reach the maximum, it stops accepting input, and waits for a RETURN press.

Added (VERSION 1.0)

RETURNS

None. Alters pointer to show user's input.

EXAMPLE

```

#include <stdio.h>
void main(void)
{
  char string[255];

```

```

if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
    */
{
    printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
        n");
    exit(0);
}
pl("OK.. In the door now....\r\n");
pl("You have 15 characters to describe yourself in.\r\n");
input(string,15);
pl("You typed : %s\r\n",string);
CloseStuff();      /* Close the door */
}

```

1.18 lineinput

NAME USE : DOOR only

```
void LineInput(char string1[],char string2[],int len);
```

SYNOPSIS

```

#include <stdio.h>

void LineInput(char string1[],char string2[],int len);

    int len;          /* Number of allowed characters */
    char string1[255]; /* The original string entered */
    char string2[255]; /* The new string entered */

```

DESCRIPTION

This command is identical to the input() command, except that the user is allowed to edit a default, or perhaps a previous string. The string1 will be printed first, then the cursor is placed at the end of the string for input/editing. The completed and edited string is in string2.

Added (VERSION 1.0)

RETURNS

None. Alters pointer to show user's input.

EXAMPLE

```

#include <stdio.h>
void main(void)
{
    char string1[255],string2[255];

    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {

```

```

        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    pl("You have 15 characters to describe yourself in.\r\n");
    input(string1,15);
    pl("You typed : %s\r\n",string1);
    pl("I'll let you edit it in case you made a mistake.\r\n");
    input(string1,string2,15);
    pl("NOW the string is %s\r\n",string2);
    CloseStuff();      /* Close the door */
}

```

1.19 loadsystemdata

NAME USE : DOOR only

```
void LoadSystemData(void);
```

SYNOPSIS

```
#include <stdio.h>
```

```
void LoadSystemData(void);
```

DESCRIPTION

This is identical to the SYSOP hitting F7 when the bbs is idle. It will load up all the #?.data files into the BBS structures, Using any new settings that may have been altered since the BBS was run.

Added (VERSION 1.0)

RETURNS

None.

EXAMPLE

```
#include <stdio.h>
```

```
#include <DOS.h>
```

```
void main(int argc, char *argv[]);
```

```

{
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    DeleteFile("BBS:Setup/Message.DATA");
    /* redefine message areas here */
}

```

```

LoadSystemData();
pl("Message base changed, as you requested!\r\n");
CloseStuff();      /* Close the door */
}

```

1.20 pl

NAME USE : DOOR only

```
void pl(char string[]);
```

SYNOPSIS

```

#include <stdio.h>

void pl(char *format, arg1, arg2...arg8);

char *format; /* The formatted string to send */

```

DESCRIPTION

This command has been rewritten to allow new paramters. Don't let the command line fool you, it's not hard to use! It's also 100% compatible with any door written for Tempest. Just now has more options. If you are familiar with the printf() function, this now operates the SAME. You may use UP TO 8 arguments, anything after that will be ignored. (The same limits apply to printf() and sprintf() as well, so there shouldn't be any problems with this.)

Added (VERSION 1.0)

RETURNS

None.

EXAMPLE

```

#include <stdio.h>
void main(int argc, char *argv[])
{
char string[255];
if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
*/
{
printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
n");
exit(0);
}
pl("OK.. In the door now....\r\n");
/* Example of NO formatting */
pl("You have 15 characters to describe yourself in.\r\n");
input(string,15);
/* Example of formatting with 1 argument */
pl("You said : %s\r\n",string);
CloseStuff(); /* Close the door */
}

```

```
}

```

1.21 setvalue

NAME USE : DOOR only

```
void SetValue(int x,int y);

```

SYNOPSIS

```
#include <stdio.h>

void SetValue(int x,int y);

int x;      /* Value          */
int y;      /* Command         */

```

DESCRIPTION

This allows you to alter the BBS priority, or turn ANSI on or off. You may want to turn ANSI on for cursor positioning codes, or some other reason.

Added (VERSION 1.0)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    SetValue(1,-5); /* Set BBS priority to -5          */
    pl("BBS Priority changed to -5.\r\n");
    SetValue(0,1); /* Set ANSI to ON          */
    pl("?[36mA?[34mN?[33mS?[32mI ?[35mis ?[31mnow ?[37mON?[0m\r\n");
    SetValue(0,0); /* Set ANSI to OFF          */
    pl("ANSI is now OFF\r\n");
    CloseStuff(); /* Close the door , and return the BBS
                    priority back to normal, automatically */
}

```

SEE ALSO

GetValue()

1.22 showfile

NAME USE : DOOR only

```
void ShowFile(char string[]);
```

SYNOPSIS

```
#include <stdio.h>

void ShowFile(char string[]);

char string[255];      /* Path & Filename to view */
```

DESCRIPTION

The file will be shown (if found) and ANSI will be displayed, and any "~" commands within that file will be executed as normal. This DOES include other doors, etc. HOWEVER, running a DOOR _FROM_ a DOOR _WILL_ crash the system! The message ports are designed for only one door to be open at a time per Tempest Node!

Added (VERSION 1.0)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
  char Filename[255];
  if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
    */
  {
    printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
      n");
    exit(0);
  }
  strcpy(Filename,"BBS:text/logoff.txt");
  ShowFile(Filename);      /* Display the logoff.txt file to user */
  CloseStuff();
}
```

1.23 usertime

NAME USE : DOOR only

```
void UserTime(int x);
```

SYNOPSIS

```
#include <stdio.h>

void UserTime(int x);

int x;      /* the amount of time to add/subtract */
```

DESCRIPTION

Either adds or subtracts online time for the user. If the number (x) is negative, it will subtract time, if positive, it will add time.

Added (VERSION 1.0)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
    int Time;

    Time=15;
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    UserTime(Time);      /* Adds 15 minutes to their current time */
    Time = Time * -1;    /* Convert to a negative number          */
    UserTime(Time);      /* Subtracts 15 minutes from their time */
    CloseStuff();
}
```

SEE ALSO

GetUserTime()

1.24 xmodemdownload

NAME USE : DOOR only

```
void XmodemDownload(char string[]);
```

SYNOPSIS

```
#include <stdio.h>

void XmodemDownload(char string[]);

char string[255]; /* Filename to d/l */
```

DESCRIPTION

This allows users to d/l something your door created, or made available to them. Obviously this function uses X-Modem protocol, and it can only do one file at a time. This is here for compatibility only, and if at ALL possible, your door should be using Zmodem instead! This protocol is the SLOWEST available! If called from LOCAL/VIEW mode, this command will fail, and quietly abort, without error or complications.

Added (VERSION 1.0)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
    /* d/l my Startup-sequence */
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    XmodemDownload("S:Startup-Sequence");
    CloseStuff();
}
```

SEE ALSO

ZmodemDownload()

1.25 zmodemdownload

NAME USE : DOOR only

```
void ZmodemDownload(char string[]);
```

SYNOPSIS

```
#include <stdio.h>

void ZmodemDownload(char string[]);

char string[255]; /* Filename to d/l */
```

DESCRIPTION

This allows users to d/l something your door created, or made available to them. This protocol is the FASTEST currently available! If called from LOCAL/VIEW mode, this command will fail, and quietly abort, without error or complications. This protocol can ALSO handle batch sending, should the need arise.

Added (VERSION 1.0)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
    /* d/l my Startup-sequence */
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
```

```

    printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
        n");
    exit(0);
}
ZmodemDownload("S:Startup-Sequence"); /* Example of multiple files */
ZmodemDownload("S:User-Startup");
ZmodemDownload("S:Shell-Startup");
CloseStuff();
}

```

SEE ALSO

XmodemDownload

1.26 tdhotkey

NAME USE : DOOR only

```
int TDHOTKEY(char str[], char des[])
```

SYNOPSIS

```

#include <stdio.h>

stat = TDHOTKEY(char str[], char des[])

int stat; /* Dummy variable, always 0 */
char str[255]; /* string to print */
char des[255]; /* string to record answer in */

```

DESCRIPTION

This is identical to Tim's hotkey() routine, with ONE exception. In addition to getting a character from the keyboard, it also outputs a string first. That way you don't have to do a pl(string) and then a hotkey(string) kinda thing. Makes it more compact. This routine was NOT part of the initial package, and was added by me (The Technician).

Added (VERSION 1.0)

EXAMPLE

```

#include <stdio.h>
void main(int argc, char *argv[])
{
    char string[255];
    /* Wait for an inputted character */
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    TDHOTKEY("What's it gonna be? [Y/n] ",string);
    pl("The key you pressed was : %s\r\n",string);
}

```

```
    CloseStuff();      /* Close the door */
}
```

SEE ALSO

getkey(), hotkey(), input(), LineInput()

1.27 prompt

NAME USE : DOOR only

```
int prompt(char str[], char des[], int len)
```

SYNOPSIS

```
#include <stdio.h>

int prompt(char str[], char des[], int len)

char str[255];      /* string to print          */
char des[255];      /* string to get          */
int len;           /* Maximum length allowed */
```

DESCRIPTION

This is the same as input, but displays a string first. You are NOT allowed to edit the string, as it id for information purposes only!

Added (VERSION 1.0)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
    char print[255];
    char input[255];
    int len=0;
    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    strcpy(print,"Input something, please");
    len=35;
    prompt(print, input, len);
    pl("you entered, %s\r\n",input);
    CloseStuff();
}
```

SEE ALSO

getkey(), input(), LineInput(), HOTKEY, hotkey()

1.28 hitreturn

NAME USE : DOOR only

```
void HitReturn(int CR_LF);
```

SYNOPSIS

```
#include <stdio.h>

void HitReturn(int CR_LF);

int CR_LF;          /* Number of \r\n to send      */
```

DESCRIPTION

This is a quick way to display some information (Prior to this call) and have the BBS wait for them to read it. The carriage-returns/linefeeds ("`\r\n`") will be sent BEFORE the "Press [RETURN]" prompt, so you can correctly space out your data. This routine does not return any values.

Added (VERSION 1.1)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
    if(!DoorStart(argv[1]) || argc < 2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("Ya can't do that, stupid user!");
    HitReturn(2);
    CloseStuff();
}
```

OUTPUT

Ya Can't do that, stupid user!

Press [RETURN]

1.29 commas

NAME USE : DOOR or CLI

```
char *commas(long number, char buffer[])
```

SYNOPSIS

```
#include <stdio.h>
```

```
char *commas(long number, char buffer[])
```

```
long number;      /* Number to insert commas in */
char buffer[];    /* buffer pointer */
```

DESCRIPTION

This small routine ([C] Jabba Development) takes a long number, and inserts "," (Comma) characters in every third place, so to make the number much more readable. buffer[] is the return string pointer, and will contain, after the call, the long number with commas properly inserted. Please note! 1) The char buff[] used below is defined in the door code itself, and MUST be declared in YOUR program as "extern char buff[255]" !! 2) You can ONLY have ONE call to the commas routine PER pl statement!

This is illegal:

```
pl("UL : %s DL : %s\r\n", commas(ulbytes,buff), commas(dlbytes,buff) );
```

The CORRECT way to do the above:

```
pl("UL : %s ", commas(ulbytes,buff) ); /* (NOTICE _NO_ \r\n!) */
pl("DL : %s\r\n", commas(dlbytes,buff) );
```

Added (VERSION 1.2)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[])
{
    long number=12345678L;
    extern char buff[255];

    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("Before: number=%ld \r\n",number);
    pl("After : number=%s \r\n",commas(number,buff) );
    CloseStuff();
}
```

1.30 debug

NAME USE : DOOR only

```
void DEBUG(fmt,a1,a2,a3,a4,a5,a6,a7,a8)
```

SYNOPSIS

```
#include <stdio.h>

void DEBUG(fmt,a1,a2,a3,a4,a5,a6,a7,a8)

char *fmt;          /* Formatting parameters */
```

DESCRIPTION

This is similar to the pl() function, except that instead of writing to the screen, this writes to the BBS:LOGS/DE_BUG.LOG. It automatically reads YOUR path, so it is NOT hardcoded to the above path. (Consider it an example...) This is useful if you're having a bug in a door that is hard to track down... You can still let the users use the door, and print out variable values, etc, to the DE_BUG.LOG, for later in-depth examination. In this manner you can test doors as you write them. The format is identical to that of pl() and printf(). The same limit applies though, no more than 8 variables per DEBUG() call!

Added (VERSION 1.2)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[]); /* Prorotype of main() */
extern int EXIT_FLAG;          /* For below */
#define DROP if(EXIT_FLAG) CloseStuff(); /* For the DROP routine */

void main(int argc, char *argv[])
{
    if(!DoorStart(argv[1]) || argc < 2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    DEBUG("This is a test of the emergency broadcast ");
    DEBUG("System. \r\n If this had been a real emergency,");
    DEBUG("Then I would have crashed!\r\n");
    pl("Wrote to the file, and am exiting now!\r\n\r\n");
    CloseStuff();          // Now contains the exit routine.....
}
```

SEE ALSO

pl(), LOG()

1.31 log

NAME USE : DOOR only

```
void LOG(fmt,a1,a2,a3,a4,a5,a6,a7,a8)
```

SYNOPSIS

```
#include <stdio.h>

void LOG(fmt,a1,a2,a3,a4,a5,a6,a7,a8)

char *fmt;          /* Formatting parameters */
```

DESCRIPTION

This is similar to the pl() function, except that instead of writing to the screen, this writes to the BBS:LOGS/.LOG. It automatically reads YOUR path, so it is NOT hardcoded to the above path. (Consider it an example...) This is IDENTICAL to the DEBUG() routine, except for the file it writes to. The format is identical to that of pl() and printf(). The same limit applies though, no more than 8 variables per LOG() call!

Added (VERSION 1.2)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[]); /* Prorotype of main() */
extern int EXIT_FLAG; /* For below */
#define DROP if(EXIT_FLAG) CloseStuff(); /* For the DROP routine */

void main(int argc, char *argv[])
{
    if(!DoorStart(argv[1]) || argc < 2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
    LOG("I decided to write this info into\r\n");
    LOG("The SYSOP's log, just to record it permanently, and to\r\n");
    LOG("Catch his/her full attention.....\r\n");
    pl("Wrote to the file, and am exiting now!\r\n\r\n");
    CloseStuff(); // Now contains the exit routine.....
}
```

SEE ALSO

pl(), DEBUG()

1.32 yn

NAME USE : DOOR only

```
void yn(fmt,a1,a2,a3,a4,a5,a6,a7,a8)
```

SYNOPSIS

```
#include <stdio.h>

void yn(fmt,a1,a2,a3,a4,a5,a6,a7,a8)

char *fmt;          /* Formatting parameters */
```

DESCRIPTION

This is variation on a few routines. It will print out a string first (Optional, as it checks for a null string), then requires a "Y" or "N" input. A Carriage return is NOT acceptable. It uses the hotkey command, so hitting return is not necessary. It accepts both upper and lowercase.

Added (VERSION 1.3)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[]); /* Prototype of main() */
extern int EXIT_FLAG; /* For below */
#define DROP if(EXIT_FLAG) CloseStuff(); /* For the DROP routine */

void main(int argc, char *argv[])
{
    int uhg=16;
    long erp=123456789;
    char stupid[255];
    strcpy(stupid,"Stupid text for testing!");

    if(!DoorStart(argv[1]) || argc < 2 ) /* REQUIRED! Door locks without it! ←
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");

    if(yn("uhg=%d, erp=%ld, and stupid is %s\r\nDo you like cottage cheese ? ←
        [Y/N] ",uhg,erp,stupid) )
        pl("Yeah? I like it too!\r\n"); /* They answered YES, YN() returned a ←
            1*/
    else
        pl("I don't blame you! It looks funny!\r\n"); /* Answered NO! YN() ←
            returned a 0 */
    HitReturn(2);
    pl("exiting now!\r\n\r\n");
```



```
    CloseStuff();          // Now contains the exit routine.....
}
```

1.33 ampm

NAME USE : DOOR or CLI

```
void AMPM(char time[255], char ampm[5])
```

SYNOPSIS

```
#include <stdio.h>
```

```
void AMPM(char time[255], char ampm[5])
```

```
char time[255];          /* The time to convert (23:13) */
char ampm[5];           /* string that contains " am" or " pm" */
```

DESCRIPTION

This takes a time string, and converts it from military tim to normal time. For instructions on how to get this time from a LONG value, see the example below. Both time AND ampm will be modified, so if you need to use the original data later in your program, then you must save it off before calling the routine. An example of this is also seen in the below example.

Added (VERSION 1.4)

EXAMPLE

```
#include <stdio.h>
void main(int argc, char *argv[]); /* Prototype of main() */
extern int EXIT_FLAG; /* For below */
#define DROP if(EXIT_FLAG) CloseStuff(); /* For the DROP routine */

void main(int argc, char *argv[])
{
    char string[255],
        backup[255],
        ampm[5];
    /* This is the format for the CURRENT time on YOUR Amiga */
    GetStr(string,17); /* Get AMIGA time */
    /* This would be the format for getting the time a user was last on! */
    // strcpy(string,ctime(&Last[x].Time_Last));
    // strmid(string,time,12,5);

    if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ↵
        */
    {
        printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\n ↵
            n");
        exit(0);
    }
    pl("OK.. In the door now....\r\n");
}
```

```

strcpy(backup,string); /* Make a copy of the data for later use */
AMPM(string,ampm);
pl("before: %s, after: %s%s\r\n",backup,string,ampm);

HitReturn(2);
pl("exiting now!\r\n\r\n");
CloseStuff();          // Now contains the exit routine.....
}

```

1.34 finduserslot

NAME USE : DOOR only

```
int FindUserSlot(char Handle[])
```

SYNOPSIS

```

#include <stdio.h>

int FindUserSlot(char Handle[])

char Handle[255];      /* Users handle to search for */

```

DESCRIPTION

This function serves two purposes. The first thing it does is search the Accounts.INX file for a specific users name, which is passed to it through the Handle[] variable. The second, is to verify that a user exists. A return code of -1 means either the Accounts.INX file couldn't be found, or that it couldn't be opened. A returncode of 0 indicates the handle/user doesn't exist. Any other returncode ABOVE 0 indicates that the user DOES exist, and the number returned is their slot number. If you wish to use the number returned for a Seek() command, then you must subtract 1 from the returned value.

Added (VERSION 1.5)

EXAMPLE

```

#include <stdio.h>
void main(int argc, char *argv[]); /* Prototype of main() */
extern int EXIT_FLAG;          /* For below */
#define DROP if(EXIT_FLAG) CloseStuff(); /* For the DROP routine */

void main(int argc, char *argv[])
{
char name[255];
int hmm=0;
if(!DoorStart(argv[1]) || argc <2 ) /* REQUIRED! Door locks without it! ↵
*/
{
printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\n ↵
n");
exit(0);
}
}

```

```

pl("OK.. In the door now....\r\n");
strcpy(name,"The Technician");          /* Let's look for ME */
hmm=FindUserSlot(name);
if(hmm==-1) pl("Your Accounts.INX file is missing or corrupt!\r\n");
if(hmm==0) pl("I've never called your BBS!\r\n");
if(hmm>0) pl("I am User # %d on your BBS!\r\n",hmm);
HitReturn(2);
pl("exiting now!\r\n\r\n");
CloseStuff();          // Now contains the exit routine.....
}

```

1.35 lockedouttext

NAME USE : DOOR only

LockedOutText(char Text[], int Which)

SYNOPSIS

```

#include <stdio.h>

LockedOutText(char Text[], int Which)

char Text[255];          /* Name/Password to check */
int Which;              /* Do name or password check */

```

DESCRIPTION

This function serves two purposes. To pick which option to use, you must define the Which variable before the call. If you want to search the NAMES.OPT file, pass a "1" to the Which variable. If you wish to search the PASSWORDS.OPT file, pass it a "2". In either case, the return values are as follows:

```

-1 = Error opening the file
0 = No match found
1 = Found a match

```

Added (VERSION 1.5)

EXAMPLE

```

#include <stdio.h>
void main(int argc, char *argv[]); /* Prototype of main() */
extern int EXIT_FLAG;          /* For below */
#define DROP if(EXIT_FLAG) CloseStuff(); /* For the DROP routine */

void main(int argc, char *argv[])
{
char text[255];
int hmm=0;
if(!DoorStart(argv[1]) || argc < 2 ) /* REQUIRED! Door locks without it! ↔
*/
{

```

```

    printf("Sorry. I am a DOOR program for Tempest BBS, NOT an executable!\ ←
        n");
    exit(0);
}
pl("OK.. In the door now....\r\n");
strcpy(text,"The Technician");
hmm=LockedOutText(text,1);
if(hmm==-1) pl("Your NAMES.OPT file is missing or corrupt!\r\n");
if(hmm==0) pl("I'm not locked out of your BBS!\r\n");
if(hmm==1) pl("Uh oh! I am Locked out! Aaaack!\r\n");

strcpy(text,"PASSWORD");
hmm=LockedOutText(text,2);
if(hmm==-1) pl("Your PASSWORDS.OPT file is missing or corrupt!\r\n");
if(hmm==0) pl("the password PASSWORD isn't locked out\r\n");
if(hmm==1) pl("PASSWORD cannot be used on this BBS!\r\n");
HitReturn(2);
pl("exiting now!\r\n\r\n");
CloseStuff();          // Now contains the exit routine.....
}

```

1.36 changes

This section is organized from the most recent changes to the oldest.

DOOR.LIB V1.5 ADDITIONS:

New to this version are new USE parameters. Some of the routines used in here do not make actual calls to DOOR functions, so they could be used in CLI programs/utilities as well. Since only I have the sourcecode, and you wouldn't know for sure, I have made up a new field in this document, called USE. In this area I will define if it can be used from the CLI, as a DOOR, or both.

Added the LockedOutText() and FindUserSlot() routines. These are pretty self descriptive, so I won't go into detail here. LockedOutText() deserves a slight explanation. It can search the NAMES.OPT OR the PASSWORDS.OPT file. These are VERY powerful commands, and we can thank "The Skeleton" for these quick & dirty hacks! They are fast, and useful to almost everyone, myself included!

I also edited EVERY command in this document, making sure the example code was perfect. I discovered upon reading through it, that most of the code was incomplete. As of now, ALL code given as examples is 100% compatible and compilable as a stand alone DOOR program. (Given that you're using SAS/C 5.1b or better!) If you find an example that isn't so, please let me know so it can be corrected...

DOOR.LIB V1.4 ADDITIONS:

Added The Skeleton's AMPM() military time converter routine. This version was NOT released.

DOOR.LIB V1.3 ADDITIONS:

Added the YN() routine. This version was NOT released !

DOOR.LIB V1.2 ADDITIONS:

Added routine `Commas()`. This really WAS included in 1.0, but I forgot to document it's use. SORRY!

Added routine `DEBUG()` for use with debugging door code you write!

Added routine `LOG()` for writing to the Sysop's LOG file. You can place warnings, error results, etc here, so the sysop is sure to see it.

DOOR.LIB V1.1 ADDITIONS:

Added routine `"HitReturn(CR_LF)"` for printing `CR_LF` number of carriage returns/linefeeds, then following it with a "Press RETURN" style prompt. I use this in 99% of my personal code, so it was added here for the convenience of others as well.
