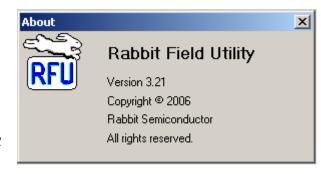


Rabbit Field Utility

The Rabbit Field Utility (RFU) will load a binary file created with Dynamic C to a Rabbit-based board. The RFU can be used to load a binary file without Dynamic C present on the host computer, and without recompiling the program each time it is loaded to a controller.

The Dynamic C installation created a desktop icon for the RFU. The executable file, rfu.exe, can be found in the subdirectory named "Utilities" where Dynamic C was installed. Complete instructions are available by clicking on the Help button within the utility. The Help document details setup information, the file menu options and BIOS requirements.

The RFU executable that comes with the Dynamic C distribution is branded as a product, as seen in the "About" screenshot shown here. With the purchase



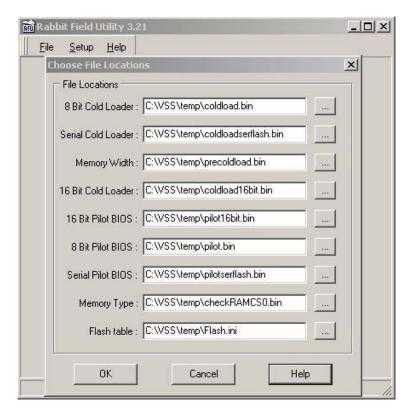
of the source code you can brand the RFU or customize its functionality to suit your needs.

The RFU enables those without Dynamic C to update their Rabbit-based board with a few files installed on the computer and the appropriate connection to the target board.

The necessary files are included with Dynamic C. They are: the executable (Rfu.exe), the cold loader, the pilot BIOS, and a couple of files used to determine information about the memory device being used. The default files used for the cold loader, etc., can be seen by selecting "Choose File Locations" from the Setup menu.

Rfu.exe and its ancillary files are freely distributable.

The RFU communicates with the target using either a serial or a TCP/IP connection. The serial connection requires a programming cable. The TCP/IP connection requires either a RabbitLink board or a RabbitSysenabled board.



Command Line RFU

There is also a command line version of the RFU. On the command line specify:

clRFU SourceFilePathName [options]

where SourceFilePathName is the path name of the .bin file to load to the connected target. The options are as follows:

-s port:baudrate

Description: Select the comm port and baud rate for the serial connection.

Default: COM1 and 115,200 bps

RFU GUI From the Setup | Communications dialog box, choose values from the Baud

Equivalent: Rate and Comm Port drop-down menus.

Example: clRFU myProgram.bin -s 2:115200

-t ipAddress:tcpPort

Description: Select the IP address and port.

Default: Serial Connection

RFU GUI From the Setup | Communications dialog box, click on "Use TCP/IP Con**Equivalent:** nection," then type in the IP address and port for the controller that is

receiving the .bin file.

Example: clRFU myProgram.bin -t 10.10.1.100:4244

-pw

Description: Passphrase for TCP/IP loader when using a RabbitLink.

Default: RabbitLink always prompts for a passphrase. Press "Enter" if no passphrase

has been set.

RFU GUI None.

Equivalent:

Example: clRFU -pw mypassphrase

-V

Description: Causes the RFU version number and additional status information to be dis-

played.

Default: Only error messages are displayed.

RFU GUI Status information is displayed by default and there is no option to turn it

Equivalent: off.

Example: clRFU myProgram.bin -v

-cl ColdLoaderPathName

Description: Select a new initial loader.

Default: \bios\coldload.bin

RFU GUI From the Setup | Boot Strap Loaders dialog box, type in a pathname or click

Equivalent: on the ellipses radio button to browse for a file.

Example: clRFU myProgram.bin -cl myInitialLoader.bin

-pb PilotBiosPathName

Description: Select a new secondary loader.

Default: \bios\pilot.bin

RFU GUI From the Setup | Boot Strap Loaders dialog box, type in a pathname or click

Equivalent: on the ellipses radio button to browse for a file.

Example: clRFU myProgram.bin -pb mySecondaryLoader.bin

-fi Flash.ini PathName

Description: Select a new file that Dynamic C will use to externally define flash.

Default: flash.ini

RFU GUI From the "Choose File Locations..." dialog box, visible by selecting Setup | **Equivalent:** File Locations, type in a pathname or click on the ellipses radio button to

browse for a file.

Example: clRFU myProgram.bin -fi myflash.ini

-vp+

Description: Verify the presence of the processor by using the DSR line of the PC serial

connection.

Default: The processor is verified.

RFU GUI From the "Communications Options" dialog box, visible by selecting **Equivalent:** Setup | Communications, check the "Enable Processor Detection" option.

Example: clRFU myProgram.bin -vp+

-vp-

Description: Do not verify the presence of the processor.

Default: The processor is verified.

RFU GUI From the "Communications Options" dialog box, visible by selecting **Equivalent:** Setup | Communications, uncheck the "Enable Processor Detection" option.

Example: clRFU myProgram.bin -vp-

-usb+

Description: Enable use of USB to serial converter.

Default: The use of the USB to serial converter is disabled.

RFU GUI From the "Communications Options" dialog box, visible by selecting **Equivalent:** Setup | Communications, check the "Use USB to Serial Converter" option.

Example: clRFU myProgram.bin -usb+

-usb-

Description: Disable use of USB to serial converter.

Default: The use of the USB to serial converter is disabled.

RFU GUI From the "Communications Options" dialog box, visible by selecting **Equivalent:** Setup | Communications, uncheck the "Use USB to Serial Converter"

option.

Example: clRFU myProgram.bin -usb-

-d

Description: Run Ethernet discovery to select a RabbitLink on a local area network

(LAN). Don't load the $\,$. bin file. This option is for information gathering and must appear by itself with no other options and no binary image file

name.

RFU GUI From the Setup | Communications dialog box, click on the "Use TCP/IP

Equivalent: Connection" radio button, then on the "Discover" button.

Example: clRFU -d