



# ***bitcontrol® FCDCF77***

## ***Driver for QNX® 4.x***

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## 1 Introduction

The DCF driver for QNX® 4.x ensures a correct system time by reading the DCF time from a DCF receiver card and updating the system time of the local and optionally all network nodes under the Operating System QNX® 4.x.

## 2 System requirements

- Operating System QNX®4.2x
- Correctly installed DCF77 PC32 card, manufactured by Meinberg, including antenna (no interrupt)

## 3 Installation

The installation of the DCF driver is done as superuser (root) using the `'/etc/install'` script:

`/etc/install`

for installation from drive `'/dev/fd0'` or

`/etc/install /dev/fdn`

for installation from drive *n*.

The following files will be installed to the `'/usr/bin'` directory:

Filename	Description
dcf_srv	Driver program
dcf_test	Test program for PC32 card

## 4 Start of the driver task

The driver task is started as follows:

`dcf_srv [options *]) &`

*) Options		
Option	Description	Default
-p<port>	IO port of the PC32 card (hexadecimal)	300
-z<fak>	Cycle for network wide time synchronisation (in minutes)	15
-c	Set CMOS to DCF time	Disabled
-n	Disable network wide time synchronisation	Disabled
-v	Be verbose	Disabled

The command line syntax is shown by

**use dcf\_srv**

Usually the driver should be started from the 'sysinit' file.

## 4 Start of the driver task

The test program '**dcf\_test**' is useful for installation of the PC32 card and adjusting of the antenna. It must be started under the Photon graphical interface.

The program prints all information of the PC32 card including the states of the control leds. It may be used to optimize the receive level of the card's antenna. For the best reception of the DCF77 signal it is more important to have a constantly blinking modulation led than a maximum receive level.