

QuickStep Download Errors and Troubleshooting

There are several errors that may occur when trying to download programs to the controller from Quickstep. The errors are always identified by a numeric code. Here are the most common errors and their solutions:

- **179 - Initialization error** — indicates that the serial port selected for the download is being used by another program. Frequently, the other program is CTC Monitor. Click on the "Suspend Monitoring" button in the main CTC Monitor window and retry the download.
- **185 - Wrong architecture** — indicates the .dso file was compiled for a different controller type than the controller to which it is being downloaded. Change the controller type in the Quickstep Parameters window, recompile the program, and retry the download.

Error 185 will also be generated by Quickstep 2.1 SE (Special Edition for the 2601 controller ONLY) if it is used to attempt to download to any controller other than the 2601. The version of Quickstep can be identified from the About option under the Help menu in Quickstep Editor. The 2601 Special Edition will be identified on this screen.

- **206 - A bad response error** — this error may occur in either of the following circumstances:
 1. the selected serial port is connected to a device other than a CTC controller. Make sure the controller is connected to the selected serial port and retry the download.
 2. the controller is programmed to transmit messages over the serial port where the download is being attempted. To overcome problems with message transmitting, try a different serial port if possible. Also, try starting the download to the controller's on-board serial port within 5 seconds of powering up the controller.
- **236 - A timeout error** — the computer received no response. This is caused by the timeout value being too small, the controller being turned off, a faulty cable connection to the controller, the wrong serial port being selected, or the wrong communications settings being used. Double check all connections and communications settings and retry the download. If the download still fails, use CTLoad (located as a separate install on the QSWin CD), increase the timeout value in the Quickstep communications settings and then retry the download.

If you have repeated problems establishing communications with a controller, remember that all CTC controllers will force the on-board serial port to maintain default settings and disallow message transmitting for the first five seconds after powerup. Try starting your download or establishing communications within 5 seconds of powering up the controller using the default 9600 baud communications settings through the on-board serial port (*use 19200 baud for BlueFusion controllers*). This will eliminate any problems that may arise if message transmitting is being used or serial port parameters are changed on the controller.

Quickstep™ Software Faults

Error No	Error Name	Error No	Error Name
1	Illegal Function	33	Network bad response
2	Corrupt Data	34	Network bad return message
3	Destination step is empty	35	Comm Port does not exist
4	Bad thumbwheel data	36	Error in request/reply
5	Step one is empty step	37	Bad flag number selected
6	Too many tasks	38	Bad delay timer selected
7	No such stepping motor	39	Out of soft counters
8	Motor not ready	40	Error in fetching or calculation analog in scaling
9	Motor not profiles	41	Module not calibrated
10	Servo #X does not exist	42	Error re-flashing module
11	Servo #X not ready	43	Error trying to open request file, not exist?
12	Servo #X Error	44	Error trying to read file, fgets?
13	Register does not exist	45	Malloc failed
14	Data Table Column does not exist	46	Analog module not responding
15	Data Table Row does not exist	47	Error in fetching or calculation analog Out scaling
16	No such prototyping board	48	Illegal build of Atmel board
17	Illegal sample time	49	Lost connection with virtual controller
18	Analog Input does not exist	50	Task error
19	Analog Output does not exist	51	Task status error
20	Display does not exist	52	Time delay not accepted, shorter delay already set (not an error)
21	Digital Input does not exist	53	Error accessing Hardware I/O
22	Digital Output does not exist	54	Generic IODRIVER error
23	Thumbwheel does not exist	55	Invalid parameter
24	Illegal data table value	56	Invalid extend data descriptor
25	Message Transmitting Busy	57	SPI Overrun
26	Divide by zero error	58	SPI Timeout
27	Data out of range	255	Unknown Error?
28	Watchdog Timer Error		
29	Network error Fault		
30	Network access timeout		
31	Network access busy		
32	Network request lost		