1. Vorbereiten das Host, folgende Software Pakete müssen installiert werden:

- gnome-devel
- bison
- flex
- texinfo
- libncurses5-dev
- git
- codeblocks
- putty

2. Buildroot installieren

Buildroot (www.buildroot.org) – erzeugt den Cross-compiler und das "root Filesystem" für das Target System.

Wichtig: Buildroot sollte unterhalb des "opt" Verzeichnis installiert werden, wählen Sie kein anderes Verzeichnis! Wenn doch müssen Sie einige Pfadangaben anpassen!

2.1 Download:

```
Host$cd /opt
host$git clone git://git.buildroot.net/buildroot
```

Sollte der "git" Port über eine Firewall gesperrt sein benutzen Sie

```
host$git clone http://git.buildroot.net/git/buildroot.git
```

2.2 Buildroot konfigurieren

host\$cd buildroot

host\$make gconfig

Einstellungen:

Target Arichtecture → arm Target Architecture Variant → arm926t Target ABI → EABI Build options → Nichts ändern Toolchain Kernel Headers → 2.6.34.x Alle anderen Einstellungen entsprechend Screenshots

Options	Name	Ν	м	Y	Value
Toolchain					
Toolchain type					Buildroot toolchain
Kernel Header Options					
Kernel Headers					Linux 2.6.35.x kernel header
uClibc Options					
UClibc C library Version					uClibc 0.9.31.x
uClibc configuration file to use?	BR2_UCLIBC_CONFIG				toolchain/uClibc/uClibc-0.9.
Thread library debugging	BR2_PTHREAD_DEBUG	-		Y	Y
Compile and install uClibc tests	BR2_UCLIBC_INSTALL_TEST_SUITE	N		-	N
Binutils Options					
Binutils Version					binutils 2.21
Additional binutils options	BR2_BINUTILS_EXTRA_CONFIG_OPTIONS				
GCC Options					
GCC compiler Version					gcc 4.3.x
Additional gcc options	BR2_EXTRA_GCC_CONFIG_OPTIONS				
Objective-C cross-compiler support	BR2_GCC_CROSS_OBJC	N		-	N
Fortran cross-compiler support	BR2_GCC_CROSS_FORTRAN	N		-	N
Build/install Objective-C compiler and runtime?	BR2_INSTALL_OBJC	N		-	N
Build/install Fortran compiler and runtime?	BR2_INSTALL_FORTRAN	N		-	N
Build/install a shared libgcc?	BR2_GCC_SHARED_LIBGCC	-		Y	Y
Gdb Options					
Build gdb debugger for the Target (NEW)	BR2_PACKAGE_GDB	N		-	N
Build gdb server for the Target	BR2_PACKAGE_GDB_SERVER	-		Y	Y
Build gdb for the Host	BR2_PACKAGE_GDB_HOST	-		Y	Y
GDB debugger Version (NEW)					gdb 6.8
Purge unwanted locales	BR2_ENABLE_LOCALE_PURGE	Ν		-	N
Use software floating point by default	BR2_SOFT_FLOAT	-		Y	Y
Target Optimizations	BR2_TARGET_OPTIMIZATION				-pipe
Toolchain Options					
Enable large file (files > 2 GB) support	BR2_TOOLCHAIN_BUILDROOT_LARGEFILE	-		Y	Y
Enable IPv6 support	BR2_TOOLCHAIN_BUILDROOT_INET_IPV6	Ν		-	Ν
Enable RPC support	BR2_TOOLCHAIN_BUILDROOT_INET_RPC	-		Y	Y
Enable WCHAR support	BR2_TOOLCHAIN_BUILDROOT_WCHAR	-		Y	Y
Enable toolchain locale/i18n support	BR2_TOOLCHAIN_BUILDROOT_LOCALE	Ν		-	Ν
Enable 'program invocation name' support	BR2_TOOLCHAIN_BUILDROOT_PROGRAM_INVOCATION	Ν		-	Ν
Enable C++ support	BR2_TOOLCHAIN_BUILDROOT_CXX	_		Y	Y
Enable stack protection support	BR2_TOOLCHAIN_BUILDROOT_USE_SSP	Ν		_	Ν
Thread library implementation	Ν				linuxthreads (stable/old)
Enable elf2flt support?	BR2_ELF2FLT	Ν		_	N
Run mklibs on the built root filesystem	BR2_MKLIBS	Ν		-	Ν
System configuration					
Package Selection for the target					
Target filesystem options					
System configuration					
System configuration					

System hostname	BR2_TARGET_GENERIC_HOSTNAME			tmpa900
System banner	BR2_TARGET_GENERIC_ISSUE			Welcome to TMPA900
🔻 🗹 Generic serial port config	BR2_TARGET_GENERIC_GETTY	_	Y	Y
Serial port to run a getty on (NEW)	BR2_TARGET_GENERIC_GETTY_PORT			ttyS0
🔻 🗆 Baudrate to use (NEW)				115200
 keep kernel default (NEW) 	BR2_TARGET_GENERIC_GETTY_BAUDRATE_KEEP	Ν	_	N
O 9600 (NEW)	BR2_TARGET_GENERIC_GETTY_BAUDRATE_9600	Ν	_	N
O 19200 (NEW)	BR2_TARGET_GENERIC_GETTY_BAUDRATE_19200	Ν	_	N
O 38400 (NEW)	BR2_TARGET_GENERIC_GETTY_BAUDRATE_38400	Ν	_	N
୦ 57600 (NEW) ^났	BR2_TARGET_GENERIC_GETTY_BAUDRATE_57600	Ν	_	N
• 115200 (NEW)	BR2_TARGET_GENERIC_GETTY_BAUDRATE_115200		Y	Y
Package Selection for the target				
Target filesystem options				

Package Selection for the target

Options	Name	Ν	м	Y Value			
Package Selection for the target							
🔻 🖉 BusyBox	BR2_PACKAGE_BUSYBOX	_		YY			
BusyBox Version				BusyBox 1	.18.x		
BusyBox configuration file to use?	BR2_PACKAGE_BUSYBOX_CONFIG			package/b	usybox/	busy	box-1.18.x.config
Show packages that are also provided by busybox	BR2_PACKAGE_BUSYBOX_SHOW_OTHERS	N		_ N			
Customize	BR2_PACKAGE_CUSTOMIZE	Ν		_ N			
Audio and video libraries and applications							
Compressors and decompressors							
Debugging, profiling and benchmark							
	BB2 BACKAGE AUTOCONE	N		N			
	BR2 PACKAGE AUTOMAKE	N		- N			
□ libbfd (binutils)	BR2 PACKAGE BINUTILS	N		- N			
bison	BR2 PACKAGE BISON	N		- N			
□ bsdiff	BR2_PACKAGE_BSDIFF	N		N			
🗆 ccache	BR2_PACKAGE_CCACHE	N		_ N			
□ cvs	BR2_PACKAGE_CVS	Ν		_ N			
□ distcc	BR2_PACKAGE_DISTCC	Ν		_ N			
Fakeroot	BR2_PACKAGE_FAKEROOT	Ν		_ N			
□ flex	BR2_PACKAGE_FLEX	Ν		_ N			
native toolchain needs development files in target filesystem							
gettext	BR2_PACKAGE_GETTEXT			YY			
Use libgettext.a instead of libgettext.so.*	BR2_PACKAGE_GETTEXT_STATIC	N		_ N			
	BR2_PACKAGE_LIDINTL	N		T T			
	BR2 PACKAGE GPERE	N		- "N			
	BR2_PACKAGE_GFEK	N		- N			
	BR2 PACKAGE MPC	N					
	BR2_PACKAGE_MPFR	N		N			
□ libtool	BR2_PACKAGE_LIBTOOL	N		_ N			
0 m4	BR2_PACKAGE_M4	Ν		_ N			
pkg-config	BR2_PACKAGE_PKG_CONFIG	Ν		N			
sstrip	BR2_PACKAGE_SSTRIP	Ν		_ N			
▶ Games							
Graphic libraries and applications (graphic/text)							
Graphic applications							
🗆 rrdtool (NEW)	BR2_PACKAGE_RRDTOOL				N	_	N
graphic libraries							
🔻 🗹 directfb	BR2_PACKAGE_DIRECTFB				_	Y	Υ
directfb debugging (NEW)	BR2 PACKAGE DIRECTFB DEBUG				N		N
□ directfb call trace support (NEW)	BR2 PACKAGE DIRECTFB TRACE				N	-	N
compile pxa3xx graphics driver (NFW)	BR2 PACKAGE DIRECTER PXA3XX				N	-	N
compile /dev/input/eventX input driver (NEW)						~	×
Compile / dev/mpdg/events/ input driver (NEW)					-		v
		5			-	1	1
	BR2_PACKAGE_DIRECTED_CERIN				IN	-	N
	DR2_PACKAGE_DIRECTEB_SERIALMO	JUS	E		N	-	IN
enable touchscreen support (NEW)	BRZ_PACKAGE_DIRECTFB_TSLIB				-	Y	Y
enable GIF support (NEW)	BR2_PACKAGE_DIRECTFB_GIF				-	Y	Y
🧭 enable JPEG support (NEW)	BR2_PACKAGE_DIRECTFB_JPEG				_	Y	Y
🜌 enable PNG support (NEW)	BR2_PACKAGE_DIRECTFB_PNG				_	Υ	Y
enable advanced dithering of RGB16 surfaces (NEW)	BR2_PACKAGE_DIRECTB_DITHER_RC	B1	6		Ν	_	N
build directfb tests (NEW)	BR2_PACKAGE_DIRECTB_TESTS				Ν	_	Ν
directfb examples (NEW)	BR2 PACKAGE DIRECTFB EXAMPLE	s			N	-	N
directfb virtual input extension (NFW)					N	-	N
fbdump (Framebuffer Capture Tool)					N	-	N
					N	-	N
	DR2_FACKAGE_FBUKAD				IN N	-	
	BK2_PACKAGE_FBV				N	-	IN

imagemagick	BR2_PACKAGE_IMAGEMAGICK	Ν		-	N
LiTE (toolbox engine) (NEW)	BR2_PACKAGE_LITE	Ν		-	N
🗆 SawMan (Window Manager) (NEW)	BR2_PACKAGE_SAWMAN	Ν		-	N
SDL	BR2_PACKAGE_SDL	Ν		_	N
other GUIs					
Qt (NEW)	BR2_PACKAGE_QT	Ν		-	N
X.org X Window System, X11R7, release 7.5 (NEW)	BR2_PACKAGE_XORG7	Ν		-	N
X libraries and helper libraries					
Liberation (Free fonts)	BR2_PACKAGE_LIBERATION	Ν		_	N
X Window managers					
X applications					
🗆 gob2 (NEW)	BR2_PACKAGE_GOB2	Ν		_	Ν
midori requires C++, WCHAR in toolchain and libgtk2					
Hardware handling					
Interpreter languages and scripting					
▼ Libraries					
Compression and decompression					
libarchive (NEW)	BR2_PACKAGE_LIBARCHIVE	Ν		_	N
🗆 lzo	BR2_PACKAGE_LZO	Ν		_	N
🖉 zlib	BR2_PACKAGE_ZLIB			Y	Y
▶ Crypto					
Options	Name	Ν	м	Y	Value
Package Selection for the target					
BusyBox	BR2_PACKAGE_BUSYBOX	_		Υ	Y
customize	BR2_PACKAGE_CUSTOMIZE	Ν		_	N
Audio and video libraries and applications					
Compressors and decompressors					
Debugging, profiling and benchmark					
Development tools					
▶ Games					
Graphic libraries and applications (graphic/text)					
Graphic applications					
rrdtool (NEW)	BR2 PACKAGE RRDTOOL	Ν			N
graphic libraries					
▼	BR2 PACKAGE DIRECTEB			Y	Y
directfb debugging (NEW)	BR2 PACKAGE DIRECTEB DEBUG	N			N
directfb call trace support (NEW)	BR2 PACKAGE DIRECTEB TRACE	N		-	N
compile pxa3xx graphics driver (NEW)	BR2 PACKAGE DIRECTER PXA3XX	N		-	N
compile /dev/input/eventX input driver (NEW)	BR2 PACKAGE DIRECTER LINUXINPUT			Y	Y
compile keyboard input driver (NEW)	BR2 PACKAGE DIRECTEB KEYBOARD	-		Ŷ	Y
compile PS2 mouse input driver	BR2 PACKAGE DIRECTEB PS2MOUSE	N			N
compile serial mouse input driver	BR2 PACKAGE DIRECTER SERIALMOUSE	N		-	N
enable touchscreen support (NEW)	BR2 PACKAGE DIRECTER TSUB			v	Y
enable GE support (NEW)	BR2 PACKAGE DIRECTER GIE	-		v	v
	BR2 PACKAGE DIRECTER IPEG	-		v	v
enable BNG support (NEW)		-		v	v
enable advanced dithering of DCB16 surfaces (NEW)	RD2 PACKAGE DIDECTR DITHED DCR16	- N		'	N N
build directfb tests (NEW)	RD2 DACKAGE DIDECTR TESTS	N		-	N
directfb examples (NEW)		N		-	N
directible completes (NEW)		N		-	N
Given by the construction of the construction (NEW) Given by the construction of the construction				-	IN N
		N		-	IN N
		N		-	IN .
	BRZ_PACKAGE_FBV	N		-	N
		_			

ptions	Name	N	MY	Value
Graphics				
Hardware handling				
🗆 libaio	BR2_PACKAGE_LIBAIO	N	_	N
🗆 libraw1394	BR2_PACKAGE_LIBRAW1394	N	_	N
libts - The Touchscreen tslib Library	BR2_PACKAGE_TSLIB		Y	Y
🗆 libusb	BR2_PACKAGE_LIBUSB	N	_	N
Networking				
▼ Other				
argp-standalone	BR2_PACKAGE_ARGP_STANDALONE	N	_	N
libatomic_ops	BR2_PACKAGE_LIBATOMIC_OPS	N	_	N
🗆 libcap	BR2_PACKAGE_LIBCAP	N	_	N
🗆 libdaemon	BR2_PACKAGE_LIBDAEMON	N	_	N
🗆 libelf	BR2_PACKAGE_LIBELF	N	_	N
libevent	BR2_PACKAGE_LIBEVENT	N	_	N
🖉 libglib2 (NEW)	BR2_PACKAGE_LIBGLIB2		Y	Y
	BR2_PACKAGE_LIBOIL	N	_	N
Text and terminal handling				
enchant (NEW)	BR2_PACKAGE_ENCHANT	N	_	N
🗆 icu (NEW)	BR2_PACKAGE_ICU	N	_	N
S libiconv	BR2_PACKAGE_LIBICONV		Y	Y
	BR2_PACKAGE_NCURSES	N	1	N
newt	BR2_PACKAGE_NEWT	N	_	N
pcre	BR2_PACKAGE_PCRE	N	_	N
popt	BR2_PACKAGE_POPT	N	_	N
readline	BR2_PACKAGE_READLINE	N	_	N
slang	BR2_PACKAGE_SLANG	N	_	N
▼ XML				
🗹 expat	BR2_PACKAGE_EXPAT		Y	Y
🗆 ezxml	BR2_PACKAGE_EZXML	N	_	N
✓ libxml2	BR2_PACKAGE_LIBXML2		Y	Y
🗆 libxslt	BR2_PACKAGE_LIBXSLT	N	_	N
xerces-c++ (NEW)	BR2_PACKAGE_XERCES	N	_	N
Miscellaneous				

Target filesystem options

rarget mesystem options				
Target filesystem options				
Custom script to run before packing files	BR2_ROOTFS_POST_BUILD_SCRIPT			
Path to the device table	BR2_ROOTFS_DEVICE_TABLE			target/generic/device_
🔻 🗆 Root FS skeleton				default target skeletor
of default target skeleton	BR2_ROOTFS_SKELETON_DEFAULT		Υ	Y
 custom target skeleton 	BR2_ROOTFS_SKELETON_CUSTOM	N	_	N
cramfs root filesystem	BR2_TARGET_ROOTFS_CRAMFS	N	_	N
cloop root filesystem for the target device	BR2_TARGET_ROOTFS_CLOOP	N	_	N
ext2 root filesystem	BR2_TARGET_ROOTFS_EXT2	N	_	N
jffs2 root filesystem	BR2_TARGET_ROOTFS_JFFS2	N	_	N
ubifs root filesystem	BR2_TARGET_ROOTFS_UBIFS	N	_	N
squashfs root filesystem	BR2_TARGET_ROOTFS_SQUASHFS	N	_	N
🔻 🗹 tar the root filesystem	BR2_TARGET_ROOTFS_TAR	_	Υ	Y
🔻 🗆 Compression method (NEW)				no compression
no compression (NEW)	BR2_TARGET_ROOTFS_TAR_NONE		Y	Y
O gzip (NEW)	BR2_TARGET_ROOTFS_TAR_GZIP	N	_	N
 bzip2 (NEW) 	BR2_TARGET_ROOTFS_TAR_BZIP2	N	_	N
🔿 lzma (NEW)	BR2_TARGET_ROOTFS_TAR_LZMA	N	_	N
other random options to pass to tar (NEW)	BR2_TARGET_ROOTFS_TAR_OPTIONS			
cpio the root filesystem	BR2_TARGET_ROOTFS_CPIO	N	_	N
initramfs requires a Linux kernel to be built				
romfs root filesystem	BR2_TARGET_ROOTFS_ROMFS	N	_	Ν

Speichern und beenden Sie die Konfiguration

2.3 Quellen herunter laden

host\$make source

2.4 Quellen übersetzen

host\$make

- 3. Das "Root File System" auf dem NFS Server kopieren
 - 1. Auf dem NFS Server das Verzeichnis "rootfs" anlegen
 - 2. Root File System auf dem Server entpacken

host\$cd /opt/buildroot/output/images

```
host$sudo tar -xvf rootfs.tar -C /..../rootfs
```

.... Verzeichnis anpassen

Hinweis: Damit man als "root" auf einen NFS Server zugreifen kann muss die Option "no_root_squash" in der "exports" Datei ergänzt werden.

Beistpiel:

/rootfs (rw,sync,no_root_squash)

Sie haben es geschafft!

3.1 Testen das "Root File Systems"

- 1. Starten Sie PuTTY
- 2. Wählen Sie Connection type: Serial, Serial line: <Das Device Ihrer Schnittstelle am PC>, Speed: 115200
- 3. Verbinden Sie das "Null Modem Kabel" mit der PC Schnittstelle
- 4. Schließen Sie das Ethernet-Kabel an
- 5. Schließen Sie die Spannungsversorgung am EVA Board an
- 6. Nach einer kurzen Boot Zeit können Sie sich über die Serielle Console als root einloggen.

4. Die Entwicklungsumgebung CODE::BLOCKS

Damit das CODE::BLOCKS oder auch selbst erstellte "Make-Files" die CrossCompiler Umgebung nutzen können müssen einige Umgebungsvariablen richtig gesetzt werden, was von dem Shell Script "environment-setup" erledigt wird. Damit das Script nicht als eigene Shell ausgeführt wird muss es mit dem "Punkt" Kommando gestartet werden.

Host\$. environment-setup

Vergessen Sie nicht das Leerzeichen zwischen "." und "environment-setup". Starten Sie nun CODE::BLOCKS von der shell aus.

host\$codeblocks

- 4.1 Compiler in CODE::BLOCKS einrichten
 - 1. Menü "Settings" → "Compiler and debugger" öffnen
 - 2. "Selected compiler": "GNU ARM GCC Compiler" auswählen
 - 3. "Copy" klicken
 - 4. Als Namen für den neuen Compiler "ARM9 TMPA900 GCC Compiler" eingeben
 - 5. Toolchain executables entsprechend Screenshot eingeben

😣 🗊 Compiler and debu	gger settings		
Global compiler se	ttings		
M	Selected compiler		
	ARM9 TMPA900 GCC Cor	mpiler	‡
	Set as def	fault Copy Rename Delete Reset def	aults
Global compiler settings	Compiler settings	inker settings Search directories Toolchain executa	bles 🕨
500	Compiler's installation d	irectory	
~	/opt/buildroot/output	/host/usr Auto-det	ect
Batch builds	NOTE: All programs bel in any of the "Additiona	low, must exist either in the "bin" sub-directory of this path l paths"	ОГ
\bigotimes	Program Files Additio	nal Paths	
G	C compiler:	arm-linux-gcc	
Debugger settings	C++ compiler:	arm-linux-g++	
	Linker for dynamic libs:	arm-linux-g++	
	Linker for static libs:	arm-linux-ar	
	Debugger:	arm-linux-gdb	
	Resource compiler:		
	Make program:	make	
	Abbree	chen OK	

6. Den Dialog mit Ok schließen

5. Hello World Programm erstellen

Das Projekt "Hello Word" ist bereits Bestandteil dieses Tutorials, die beschreibung dient nur als Anleitung für eigene Projekte, der Automatisch erzeugte Quellcode ist auch für unsere Embedded Anwendung nicht zu gebrauchen.

1. Neues GTK Projekt anlegen, Menü "File" → "New" → "Project" → "GTK+ project" auswählen, "Ok", "Next"

2. Project Namen, Arbeitsverzeichnis eigeben



- 3. Weiter mit Next und Dialog mit Finish schließen
- 4. Compiler umstellen, Menü "Project" → "Build options..."
- 5. Am linken Rand "gtkhallo" auswählen, damit die Einstellungen für "Debug" und "Release" gültig sind
- 6. Selected Compiler auf "ARM9 TMPA900 GCC Compiler" umstellen
- 7. Compiler Flags

😣 🗐 Project b	uild options
gtkhallo	Selected compiler
Debug	ARM9 TMPA900 GCC Compiler
Release	Compiler settings Linker settings Search directories Pre/post build steps
	Policy: Append target options to project options ‡
	Compiler Flags Other options #defines
L v t v - r - 7) I C C	pkg-config gtk+-directfb-2.0 -cflags`
	Abbrechen OK

8. Einstellungen für den Linker

gtkhallo	Selected compiler
Debug	ARM9 TMPA900 GCC Compiler
[Compiler settings Linker settings Search directories Pre/post build steps
	Policy: Append target options to project options ‡
L	Link libraries: Other linker options:
	pkg-config gtk+-directrb-2.0 –libs
i (Add Edit Delete Clear Copy selected to
	Abbrechen OK

9. Dialog schließen

10. Debugger konfigurieren, Menü "Project" → "Properties", die IP adresse muss an die Adresse das Targets angepasst werden

😕 🔲 Project/tai	gets options					
Project settings	Build targets	Build scripts	Notes	Debugger	C/C++ parser options	
Additional debug	gger search dirs					
						Add
						Edit
						Delete
Select target:	Remote conne	ction Additi	onal GDE	commands	Additional shell commands	
<project> Debug Release</project>	Connection ty	oe: TCP	Baud:	115200 ‡		
	IP addre	ss: 192.168.1.	2I	Port: 3333		
		just LD_LIBR	ARY_PA	TH before <mark>l</mark> au	inching the debugger	
					Abbrecher	ОК

earch dirs:				bbA
				Add
				Edit
				Delete
				Delete
pport (GDB only!)				
note connection	Additional GDB	commands	Additional shell comman	nds
ore connection: s	et solib-absolute	-prefix /opt/h	uildroot/output/bost/us	r/arm-linux/sysroot
S	et solib-search-p	ath lib:usr/lib		iyanin anaxysysrooc
ar connection:				
er connection:				
	pport (GDB only!) note connection ore connection: s s	pport (GDB only!) note connection Additional GDB ore connection: Set solib-absolute set solib-search-p	pport (GDB only!) note connection Additional GDB commands ore connection: set solib-absolute-prefix /opt/t set solib-search-path lib:usr/lib	pport (GDB only!) note connection Additional GDB commands Additional shell commar ore connection: set solib-absolute-prefix /opt/buildroot/output/host/us set solib-search-path lib:usr/lib

6. Tiny-CAN

6.1 Tiny-CAN Treiber kompilieren

host\$cd /opt/LinuxGo
host\$. environment-setup
host\$cd treiber/mhstcan/tmpa900
host\$make
Die Datei "libmhstcan.so" ins "opt" Verzeichnis des Targets kopieren

6.2 Embedded CAN-View kompilieren

```
host$cd /opt/LinuxGo/target
host$make
host$cd bin/Debug
Die Dateien "COPYING", "emb_can_view" und "tiny-can.png"
ins "opt" Verzeichnis des Targets kopieren
"emb_can_view" kann auch mit Code::Blocks kompiliert
werden, laden Sie das Projekt "emb_can_view.cbp"
```

7. Touch Umgebungsvariable für den Touch setzen

target\$export TSLIB TSDEVICE=/dev/input/event0

Touch kalibrieren

target\$ts calibrate

Touch testen

target\$ts_test

Dateien/Verzeichnisse:

environment-setup	Script zum setzen der Umgebungsvariablen für Cross-Compiling
can_api	Tiny-CAN API Files
emb_can_view	Embedded Tiny-CAN View
trieber	Quellen Tiny-CAN API Treiber
gtkhallo	GTK "Hello World" Demo Programm
sample1	Test Programm für die Console

Probleme:

Wenn ich eines der GTK Programme beende hängt sich das ganze auf. Das debuggen in den GTK Programmen funktioniert noch nicht Das "sample1" kann man mit Code::Blocks debuggen.

Auf dem Target mit gdbserver starten:

target\$gdbserver :3333 sample1

Die Bootparameter, der Kernel befindet sich auf dem Target das "root" Filesystem auf dem NFS Server.

bootargs_base=setenv bootargs console=ttyS0,115200n8 \${mtdparts} root=/dev/nfs nfsroot=192.168.1.99:/data/rootfs ip=192.168.1.2 4{videoparams} ethaddr=\${ethaddr}

bootcmd=run bootargs_base; nboot kernel; bootm

Anbei auch noch der Kernel und Uboot den ich verwende