## Setting up qtcreator for use with the top level FELIX CMakeLists.txt file as project file

Jos Vermeulen, 28-Feb-2023

Setup shown in the next slides only has to be done once. Information entered is stored in the CMakeLists.txt.user file in the software directory and in the \$HOME/.config directory. Deleting the CMakeLists.txt.user file and deleting the build directory may help if gtcreator does not behave correctly. If this does not solve the issue try to delete QtProject.conf and the directory QtProject in \$HOME/.config

The script (with name setupcreator) has to be run after cd-ing to the software directory and after running setup.sh and starting gtcreator the CMakeLists.txt file from the same software directory has to be loaded

setupcreator

# Versions export GDB\_VERSION=11.2 export GIT\_VERSION=2.28.0 export GCC\_VERSION=11.3.0 export OS\_VERSION=x86\_64-centos7  $\# \rightarrow$  Set here the path to gdb and git export LCG\_CVMFS\_BASE=/cvmfs/sft.cern.ch/lcg export LCG\_CVMFS\_VERSION=\$LCG\_FULL\_VERSION export LCG\_CVMFS\_BINARYTAG=\$BINARY\_TAG export LCG\_CVMFS\_GDB=\$LCG\_CVMFS\_BASE/releases/LCG\_\$LCG\_CVMFS\_VERSION/gdb/\$GDB\_VERSION/\$LCG\_CVMFS\_BINARYTAG export LCG\_CVMFS\_GIT=\$LCG\_CVMFS\_BASE/contrib/git/\$GIT\_VERSION/\$0S\_VERSION  $\# \rightarrow \text{Next three environment variables need to be picked up by qtcreator (with <math>(\text{Env:NAME})$ # -> These are used for running cmake by cmake\_config, only the first is essential for qtcreator export CMAKE\_MODULE\_PATH=\$PWD/cmake\_tdaq/cmake/modulesexport BUILDNAME=\$BINARY\_TAG export CMAKE\_BUILD\_TYPE=Release  $\# \rightarrow$  for python export PYTHON\_BASE=\$LCG\_BASE/releases/LCG\_\$LCG\_FULL\_VERSION/Python/\$PYTHON\_VERSION/\$BINARY\_TAG # -> gtcreator gets confused by the LD\_LIBRARY\_PATH that also points to a directory with LCG gt5 libraries # -> remove pointer to LCG gt5 libraries from LD\_LIBRARY\_PATH export LD\_LIBRARY\_PATH=\$(printenv LD\_LIBRARY\_PATH | sed s%:%:'\\\n'%q | sed '/qt5/d' | tr -d '\\\n') # -> debugger (gdb) export PATH=\$LCG\_CVMFS\_GDB/bin:\$PATH export LD\_LIBRARY\_PATH=\$LCG\_CVMFS\_GDB/lib:\$LD\_LIBRARY\_PATH export MANPATH=\$LCG CVMFS GDB/share/man:\$MANPATH # -> ait (ait) export PATH=\$LCG\_CVMFS\_GIT/bin:\$PATH export MANPATH=\$LCG\_CVMFS\_GIT/share/man:\$MANPATH # -> python (needed when using gdb in qtcreator): # export PATH=\$PYTHON\_BASE/bin:\$PATH export LD\_LIBRARY\_PATH=\$PYTHON\_BASE/lib:\$LD\_LIBRARY\_PATH export MANPATH=\$PYTHON\_BASE/share/man:\$MANPATH export PYTHONHOME=\$PYTHON\_BASE # -> sets maximum number of parallel bulding processes, typically equal to the maximum number of hyperthreads export MAKEFLAGS="-j16 QUICK=1

For starting gtcreator the correct path has to be specified, e.g. at Nikhef: /project/atlas/tdag/qt5121/Tools/QtCreator/bin/qtcreator &

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	fel.cpp	<b>A</b>	28	#define EGROUP_CTRL_MODE_SHIFT 15	
felix			29		
			30	const char *HELP TEXT =	
			31	"Options:\n"	
Default			32	"-a: allocate cmem memory, sleep 10 s and de-allocate\n"	
			33	"-b <size>[4]: size of buffer in MByte to allocate\n"</size>	
	Click here to compile		34	"-d <n>[0]: select FLX-card <n>\n" Click here to see side bar with</n></n>	
	everything that needs		35	"-f <n>[1024]: hex dump only first <n> bytes of each dumped block (see -F/-0)\n"</n></n>	
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A A A A A A A A A A A A A A A A A A A	to be complied		37	"-h: this output\n" compilation 19	
		*	38	<pre>"-i[cdeiwvwm0] [<m>] [<u>]:\n" " c : cancel waiting for interrupts\n"</u></m></pre>	-
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	🝷 🎒 felix [master]	300	// To store the E-link configurations for all GBT links		4
	🔤 🔂 CMakeLists.txt	301	<pre>//GbtConfig gbtConfig[MAXCARDS][FLX_GBT_LINKS];</pre>		
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ىر	crc.cpp	314	verbose = true;		
• Projects	F crc.h	315	<pre>printf( "Going verbose!\n" );</pre>		
,	DataPrep.cpp	316	break;		
•	F DataPrep.h	317	}		
Help	TelixCand ann	319	// Scan ontions		
	FelixCard.cpp	320	char ch;		
	FelixCard.n	321	i = 1;		
	ElyDataChecker.cpp	322 🔻	while(i < argc)		
		323	{		
	GhtConfig h	324 -	if(argv[i][0] != '-')		
	Open Documents ≜ ⊟+ ा	326	<pre>nrintf("Command line: expected ontion, got \"%c\" -&gt; ston\n".</pre>		
	fel con	327	argv[i][0]);		
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	Click here	329	} Click here for the output		
	for running	330	ch = argv[i][1]; produced by running the		
Default	the executable	331	executable selected		
	selected	333	swrtch( ch )		
	Sciected	334	case 'a':		
	Click here for	335	allocateCmemTestFlag = true;		
	interactive	336	continue;		
Pak	debugging	337	case 'b':	23	
	исмарріна	. 338 *	II(I K argc && argp[I][0] (= '-')		Υ.
	P, Type to locate (Ctrl+K)	1 Issues	2 Search Results 3 Application Out 4 Compile Output 5 Debugger Cons 6 General Messa 8 Test Results 💠 👘	- L	



▼			fel.cpp (fel/src @ feli	x) [master] - Qt Creator	
<u>F</u> ile <u>E</u> dit	<u>Build Debug</u> Analyze Tools	Window Help			
	Projects 🗢 🗧 🕞 🖯+		🗟 fel.cpp	🗢 📉 🗰 🧼 main(int, char **): int	¢ Line: 335, Col: 31 ⊟+
	🝷 🎒 felix [master]	▲ 306	int i;		×
	CMakeLists.txt	307			
Welcome	) 📄 cmake tdag	308	// ******* handle command	line arguments ********	
	Emembuff	309	// Verbose option?		
	drivers rcc	310	<pre>bool verbose = false;</pre>		
Edit	elinkconfig	<b>M</b> 311	<pre>for( i=1; i<argc; )<="" ++i="" pre=""></argc;></pre>		
		312 -	if (argv[i][0] == '-' &&	argv[i][1] == 'v')	Code browsing
/	Final Excertain	313	i		
Design		315	printf( "Going verbose		
		316	break:		
- Ú	• III Iei	317	}		
Debug		318	5		
	• src	319	// Scan options		
ىكر	crc.cpp	320	char ch;		
Projects	F crc.h	321	i = 1;		
	DataPrep.cpp	322 🔻	while(i < argc)		
?	Tatarrep.n	323			
Help	tel.cpp	324 ▼	1T( argv[1][0] != '-' )		
	FelixCard.cpp	325	nrintf("Command line	$\sim$ expected option got $(\%)$ -> stop/p"	
	FelixCard.h	327	argv[i][0]):	. expected operon, goe ( we ( ) stop(n ,	
	FlxDataChecker.cpp	328	exit(0);		
	FlxDataChecker.h	329	}		
	🛐 flxdefs.h	330	ch = argv[i][1];		
	🙀 GbtConfia.h	331	i++;		
	Open Documents 🔷 🗧 🖯 🕂	Image: 332 mm	switch( ch )		
faliv	fel.cpp	333	{		
		334	case 'a':		🗾 right click on
, 🛄 ,		335	allocateLmemTestFlag	Switch Header/Source	variable for
Default		337	case 'b':	Follow Symbol Linder Cursor	
Derault		338 -	if(i < argc && argy	Follow Symbol onder Cursol	menu
		339	{	Switch Between Function Declaration/Definition	
		340	// In MByte	Find Usages	
		341	if( sscanf( argv	Open Type Hierarchy	
		342	missing_par( c		
<b>₽</b> %R¢		343	bufSize *= 0x100	Open Include Hierarchy	
		₹ 344	1++;	<u>R</u> efactor	>
	P. Type to locate (Ctrl+K)	1 Issues	2 Search Results 3 Application	Auto-indent Selection	Messa 8 Test Results 💠 🧴 🔳
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				Add Expression Evaluator	
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				Add UTE-8 BOM on Save	