FY-XDS100V3 and CCS6.2 Tutorial

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Note: The downloader does not provide external power: 5This pin does not output power. This pin needs to be connected to the power supply of the target board, otherwise it

will not work!4FeetGNDIt is also required to accept.

Note: Do not plug or unplug while power is on 20 PPlease plug in and out after power off. 20 PO therwise, the downloader may be damaged.

Chapter 1CCS6.2Software Installation

First we need to installTI DSPSoftware development environmentCCS (Code Composer Studio). If you have used emulator products from other companies. We recommend usingCCS6.2version, because temporarily Hezhongda'sXDS510PLUSandXDS560PLUSThe emulator only supportsCCS6.2, the compatibility of higher versions is not very good. In addition, we chooseXDS100 V2The emulator is only applicable toCCS4.0And above versions of the development environment, XDS100V3The emulator is only suitable forCCS5.2And above versions of the development environment.

Note: Before installation, turn off anti-virus software and 360, PC Manager and other security protection software, otherwise a warning will appear when clicking the installation program, and forced installation will result in file loss. Double-clickccs_setup_6.2.0.00050.exeThe file appears as shown below1-2The interface shown:

•	共享 ▼ 新建文件夹					: ·
Â	名称	修改	日期	类型	大小	
	퉬 baserepo	2016	/9/13 12:19	文件夹		
	퉬 binary	2016	/9/13 12:20	文件夹		
	퉬 featurerepo	2016	/9/13 12:16	文件夹		
	퉬 features	2016	/9/13 12:20	文件夹		
	artifacts.jar	2016	/9/13 12:20	JAR 文件	1 KB	
	🍓 ccs_setup_6.2.0.00050.exe	2016	/9/13 12:17	应用程序	15,551 KB	
	content.jar	2016	/9/13 12:20	JAR 文件	2 KB	
	README_FIRST.txt	2016	/9/13 12:19	文本文档	1 KB	
Ш	📄 timestamp.txt	2016	/9/13 12:06	文本文档	1 KB	

picture1-1

	×
License Agreement	5
Please read the following license agreement carefully.	1
Code Composer Studio 6.2 Software License Agreement	•
IMPORTANT - PLEASE READ THE FOLLOWING LICENSE AGREEMENT CAREFULLY. THIS IS A LEGALLY BINDING AGREEMENT. AFTER YOU READ THIS LICENSE AGREEMENT, YOU WILL BE ASKED WHETHER YOU ACCEPT AND AGREE TO THE TERMS OF THIS LICENSE AGREEMENT. DO NOT CLICK "I ACCEPT" UNLESS: (1) YOU ARE AUTHORIZED TO ACCEPT AND AGREE TO THE TERMS OF THIS LICENSE AGREEMENT ON BEHALF OF YOURSELF AND YOUR COMPANY; AND (2) YOU INTEND TO ENTER INTO AND TO BE BOUND BY THE TERMS OF THIS LEGALLY BINDING AGREEMENT ON BEHALF OF YOURSELF AND YOUR COMPANY.	
Important - Read carefully: This Code Composer Studio 6.2 Software License Agreement ("Agreement") is a legal agreement between you (either an individual or entity) and Texas Instruments Incorporated ("TI"). The "Licensed Materials" subject to this Agreement include the software programs (in whole or in part) that accompany this Agreement and any "on-line" or	Ŧ
I accept the terms of the license agreement.	
◎ I do not accept the terms of the license agreement. Print	
Texas Instruments	—
< Back Next > Finish Cancel	

choose"I accept the terms of the license agreement", clickNext" As shown below1-3

🤯 Code Composer Studio v6 Setup		X
Choose Installation Location Where should Code Composer Studio v6 be installed?		
To change the main installation folder click the Browse button.		NN/
CCS Install Folder d:\ti	(Browse
Texas Instruments		
< Back Next >	Finish	Cancel

Click "Browse" Select the installation path (note: the path cannot contain Chinese characters), but the default path is recommended.D:\tiClick "

Next" See the figure below1-4As shown:

🤀 Code Composer Studio vб Setup	X
Processor Support	
Select Product Families to be installed.	
 MSP Ultra Low Power MCUs C2000 32-bit Real-time MCUs SimpleLink Wireless MCUs 32-bit ARM MCUs Sitara 32-bit ARM Processors Media Processors Single Core DSPs Multi Core Processors UCD Digital Power Controllers 	Description
Select All	Install Size: 1767.69 MB.
Texas Instruments < Back	Next > Finish Cancel

Select the content to be installed according to your needs. Select "Select All" , then clickNext" See the figure $% \mathcal{A} = \mathcal{A} + \mathcal{A}$

below1-5Shown

🤀 Code Composer Studio v6 Setup	X
Select Debug Probes Select the debug probes you want installed ar you want to leave out.	d deselect the debug probes
 TI XDS Debug Probe Support Blackhawk Debug Probes Spectrum Digital Debug Probes and Boards MSP430 USB FET Tiva/Stellaris ICDI Debug Probe 	Description
□ Select All	Install Size: 1938.54 MB.
Texas Instruments	Next > Finish Cancel

Still choose the simulation device driver type according to your needs, here selectTI XDS Debug Probe Support, then click "Next" See the figure below1-6As shown:

😜 Code Composer Studio v6 Setup	
App Cer Texas Instrumen	nter ts
There are additional products and features ("add-ons") av Selected add-ons will be downloaded in the background a you run Code Composer Studio for the first time.	vailable from the CCS App Center. and installed by the App Center when
 Tools (for App Center background download) MSP430 GCC PRU Compiler EVE Compiler Linux Development Tools Software (for App Center background download) GUI Composer 	- Description
Select All	Install Size: 1938.54 MB.
Texas Instruments	
< Back Nex	kt > Finish Cancel

Select according to your needs, unselect all here, and then click "Finish" During the installation process, the following figure will pop up1-7Do not click

the dialog box that displays some installation functions. Cancelbutton, otherwise this feature will not be installed during the installation process.

💱 Code Composer Studio v6 Setup	- 0	23
CCS Installation Code Composer Studio is being installed on your computer	44	ð
		М
Unzipping C:/Users/FY/AppData/Local/Temp/ccs_6[]serepo/eclipse_core_4.5.1.custo	om-16012	1.zip
Starting Install Installing utilities and miscellaneous Unzipping C:/Users/FV/AppData/Local/Temp/ccs_634fa081-f12f-455f-4fbe-a4d16d0876ac/com.ti ler.msvc.2015.win32_root_14.0.23506 Installing com.ti.ccstudio.installer.msvc.2015.win32 com.ti.ccstudio.installer.msvc.2015.win32 installed Unzipping C:/Users/FV/AppData/Local/Temp/ccs_634fa081-f12f-455f-4fbe-a4d16d0876ac/jre_ro Unzipping C:/Users/FV/AppData/Local/Temp/ccs_634fa081-f12f-455f-4fbe-a4d16d0876ac/down 80-windows-i586.zip Installing Eclipse Unzipping C:/Users/FV/AppData/Local/Temp/ccs_634fa081-f12f-455f-4fbe-a4d16d0876ac/baser re_4.5.1.custom-160121.zip	i.ccstudio ot_1.7.0.8 loads/jre repo/eclip	o.instal 30 -1.7.0. ose_co
Texas Instruments	Cano	el

After the installation is complete, click "Finish" as shown in Figure 1-8 below:

🐯 Code Composer Studio v6 Setup		_ 0	XX
CCS Installation		1	\leq
Code Composer Studio has been succ	essfully installed.		\bowtie
	🔽 Launch Code Composer Studio		
	✓ Create Desktop Shortcut		
	✓ Create Start Menu Shortcut		
Texas Instruments		Finis	h

Figure 1-8

Chapter 2CCSConnection to the emulator

becauseXDS100 V3The emulator driver has already done thisCCSV6So when the user installsCCSV6After the version of the software is installed, the emulator driver has been installed. Next, the user only needs toUSBand PCMachineUSBThe driver is also automatically recognized and installed. When it prompts that the driver is installed and can be used, the user can use the emulator to simulate the target board.

Next we willTMS320F28035Take the development board as an example to explain how to use itXDS100 V3 Simulate the target board.DSP, the operation process is the same.

In the device manager, you can see the following:

The computer will automatically install the driver.

The following two drivers are displayed as normal. (You can see it in the device manager) The

old driver shows:



2.1 Define the workspace directory

The first thing CCSv6 requires is the definition of a workspace, a directory that holds all the elements used in the development process (projects and links to projects, and possibly source code).

By default, the workspace will be created in C:\Users\<user>\Documents or C:\Documents and Settings\<user>\My Documents, but you can choose any location. Each execution of CCSv6 will ask for the workspace directory. If you plan to use one directory for all projects, just check the "Use this as the default and do not ask again" option, as shown in Figure 2-1-1



Figure 2-1-1

If usedCCSUsers of lower versions are not unfamiliar with this.CCSv6In the version environment, it is also necessary to establish a simulation configuration environment, but the human-machine interface is different.CCSIn lower versions, useCCS SETUPTo establish, I will not introduce it here. The following mainly introduces how toCCSv6Established in:

In the toolbar, clickFile ->New->Target Configuration File", as shown below2-2-1As shown:

File	Edit View Navig	gate Project Run Scripts	Wi	indow Help	
	New	Alt+Shift+N ►		CCS Project	
	Open File			Project	
	Close	Ctrl+W	C	Source File	
	Close All	Ctrl+Shift+W	h	Header File	
	Save	Ctrl+S	G	Class	
13	Save As			File from Template	
G.	Save All	Ctrl+Shift+S	Û	Folder	
1247	Revert		C	Target Configuration File	
	Maria		88	DSP/BIOS v5.x Configuration File	
-A	Rename	F2		Other	C

Name this configuration "f28035_xds100v3.ccxml" (You can name it yourself), click "Finsh" ,

As shown below2-2-2As shown:

💱 New Target Configuration	
Target Configuration	
Create a new Target Configuration file.	
File name: f28035_xds100v3.ccxml	
✓ Use shared location	
Location: C:/Users/FY/user/CCSTargetConfigurations File System	Workspace
Finish	Cancel

picture2-2-2

exist"connectionIn the "Debugger Type" column, select "Texas Instruments XDS100v3 USB Emulator","DeviceIn the "(Chip Type)" column, select "TMS320F28035", as shown below2-2-3Shown:

CCS Edit - C:\Users\FY\	user\CCSTargetConfigurations\f28035_xds100v3.ccxml - Code Composer Stud	io
e Edit View Naviga	ate Project Run Scripts Window Help	
• 🖫 👘 🔨 • 🖉	▶ ☆ ▼ 🔗 ▼ 📃 🔲 🏷 🖓 ▼ 🖒 ▼	
Getting Started	😭 *f28035_xds100v3.ccxml 🔀	
Basic		
General Setup		
This section desc	ribes the general configuration about the target.	
Connection	Texas Instruments XDS100v3 USB Debug Probe	•
Board or Device	28035	
	Developer's Kit - Dual Motor Control and PFC (F28035)	
	Developer's Kit - Motor Control and PFC (F28035)	
	Experimenter's Kit - Piccolo F28035	
	TMS320F28035	
L		
		_
		^

picture2-2-3

If you use the defaultGELfile, then clickSave" As shown in Figure 2-2-4

) Getting Started	R *f28035_xds100v3.ccxml ⊠	
asic		
General Setup		Advanced Setup
This section descr	ibes the general configuration about the target.	
Connection	Texas Instruments XDS100v3 USB Debug Probe	Target Configuratic
Board or Device	28035	Save Configuration
	 Developer's Kit - Dual Motor Control and PFC (F28035) Developer's Kit - Motor Control and PFC (F28035) Experimenter's Kit - Piccolo F28035 TMS320F28035 	Save Test Connection To test a connectior configuration file co Test Connection Alternate Commun Uart Communicatio
		To enable host side communication ove implementation. Ple target application le

Figure 2-2-4

So far, this configuration environment has been established.

2.3 Connecting to the target board

Find the "View->Target configurations" button on the toolbar and click it to switch to the configuration interface. Then right-click the configuration file in the configuration interface and select "Set as Default" to set the newly created configuration file as the default state. Start debugging, right-click and select "Launch Selected Configuration" of the configured project. Detailed operations are shown in Figure 2-3-1 below:



After successful startup, click "Run->Connect Target" in the toolbar to connect to the target board, as shown in Figure 2-3-2 below:



CCS Debug - Source not found Code Composer Studio					
File Edit View Project Tools Run Scripts Window H	elp				
📑 👻 🔚 🐚 🔨 👻 🖉 🐄 🕶 🛷 🕶 🖳 🕨 💷 🔳 🥾 🕫 🕼 📳 🎭 🖉 🖉 😓 🖉 🐨 🔝 🖉					
				Quick A	
🎋 Debug 🛿	~	(x)= Variables	⊠ 🖋 E	xpressions 1010 Registers	
a 🜍 f28035_xds100v3.ccxml [Code Composer Studio - Device	Debugging]				
Texas Instruments XDS100v3 USB Debug Probe_0/C2	8xx (Suspend	Name		Type	
0x3FF8A1 (no symbols are defined for 0x3FF8A1)		T turne		1900	
Texas Instruments XDS100v3 USB Debug Probe 0/CL	A 0 (Disconn				
X ⁻ reads instrainents Abbitotto bob bobag ribbe_o/ob					
< III	4				
😰 f28035_xds1 💽 0x3ff8a1 🔀 🎽	🔛 Disasseml	bly 🛛	Enter	location here	
No source available for "0x3ff8a1"	3ff8a1:	28AD0004	MOV	@SP, #0x000	
	3ff8a3:	561F	SETC	OBJMODE	
View Disassembly	3ff8a4:	5616	CLRC	AMODE	
	3ff8a5:	561A	SETC	MØM1MAP	
	3ff8a6:	2940	CLRC	PAGE0	
	3118a/:	761F0000	MOVW	DP, #0×0	
▶ 点击出现石边的反汇编窗口	311889:	2902	CLKC SDM	UVM #0	
	3ff8ah	767EE4B0	LCR	#0 0x3ff4b0	
	3ff8ad:	56CE0002	BE	2. UNC	
	3ff8af:	28AD0004	MOV	@SP, #0x0004	
	3ff8b1:	2BBD	MOV	*SP++, #0	
	3ff8b2:	2BBD	MOV	*SP++, #0	
	3ff8b3:	1EBD	MOVL	*SP++, ACC	
	3ff8b4:	0007	POP	RPC	
	3ff8b5:	5633	ZAPA		
	3ff8b6:	1EAC	MOVL	@XT, ACC	



Connect or disconnect shortcut keys

Chapter 3 CreationCCS6.0project

3.1 Create a project

After the Welcome screen closes, the following workspace will be displayed, and you can now create a new project. Go to the menu "File -> New -> CCS Project" as shown in Figure 3-1 below:

File	Edit View Navigate Project	Run Scripts Window	Help		
	New	Alt+Shift+N ►	1	CCS Project	
	Open File		Ľ	Project	
	Close	Ctrl+W	c	第一步 Source File	
	Close All	Ctrl+Shift+W	h	Header File	
	Save	Ctrl+S	C	Class	
	Save As		(File from Template	
	Save All	Ctrl+Shift+S	C°	Folder	
	Revert		Ľ,	Target Configuration File	
	Move			DSP/BIOS v5.x Configuration File	
0	Rename	F2		Other Ctrl+N	
2	Refresh	F5			1
	Convert Line Delimiters To	,			

Figure 3-1

② In "Project Name(Project Name) field, type a name for the new project. If you selectUse default

locationUse default location" option (enabled by default) will create the project in the workspace folder.

Uncheck this option to choose a new location (usingBrowse...(Browse...)" button). Name the project "

led_test"

3 In "Target" Select the chip type to be used from the menu.

④ In " "Connection" Select Debugger.

⑤ Click "Finish(Complete)" to create the project., as shown below3-2As shown:

💱 New CCS Project					
CCS Project Create a new CCS Project. 第三步					
Target: 28035	▼ TMS320F28035				
Connection: Texas Instruments XDS100v3 USB D	Debug Probe 👻 Verify				
C28XX [C2000]					
Project name: led_test					
✓ Use default location	第二步				
Location: C:\Users\FY\workspace_v6_	2\led_test Browse				
Compiler version: TI v15.12.3.LTS	▼ More				
 Advanced settings 					
✓ Project templates and examples					
type filter text	Creates an empty project fully initialized				
Empty Projects Empty Depied	contain an empty 'main.c' source-file.				
Empty Project (with main.c)					
🔁 Empty Assembly-only Project					
第五步					
? Sack	Next > Finish Cancel				
	nictura 2				

⁽⁶⁾ To create files for the project,C/C++ Projects (C/C++Project)" (Path: Toolbar Window->Show View->OtherNextC/C++->C/C++ Projects) view and selectNew -> Source File(New->Source File)". In the text box that opens, type a file with a valid extension (.c、.C、.cpp、.C++、.asm、.s64、.s55ClickFinish(Finish)".

 \bigcirc To add existing source files to the project,C/C++ Projects (C/C++Right-click the project name in the Projects tab and selectAdd Files to Project(Add files to project)", add the source files 18

You can also select "Link Files to Project(Link File to Project)" to create a file reference, which keeps the file in its original directory. This is necessary if your source code contains files in a very specific directory structure.

3.2 Generate Project

Once the project has been created and all files have been added or created, you need to build the project. Simply go to the menu "Project -> Build Active Project". The "Rebuild Active Project" option rebuilds all source files and referenced projects. However, if the project is large, this can be a lengthy process.

Note: If build errors are encountered and no executable is created, the console window at the bottom of the screen will display an error or warning message and the debugging session will not start.

Chapter 4 Project Introduction

4.1 Importing CCS high version projects

In the "C/C++ Projects" (path: Window->Show View->C/C++->C/C++ Projects under Other in the toolbar), that is, the "CCS Edit" view, click "Project->Import CCS Projects..." on the toolbar as shown in Figure 4-1-1 below:

😵 CCS Edit - Code Composer Studio				
File Edit View Navigate	Project Run Scripts Window Help			
E ▼ ⊠ Ø : =	 New CCS Project New Energia Sketch Examples 			
	Build All Ctrl+B Build Configurations > Build Working Set > Clean Clean Build Automatically Show Build Settings Add Files			
	inport CCS Projects			
	 Import Legacy CCSv3.3 Projects Import Energia Sketch Import Energia Libraries Properties 			

Figure 4-1-1

In the pop-up window, perform the following operations as shown in Figure 4-1-2:

💱 Import CCS Eclipse Projects	_ D X			
Select CCS Projects to Import Select a directory to search for existing CCS Eclipse projects. 第一步选择CCS工程文件夹				
Select search-directory: D:\xds\IO_test	Browse			
Select archive file:	Browse			
Discovered projects:				
🔽 🛅 IO_test [D:\xds\IO_test]	Select All			
	Deselect All			
这里目动检测到工程	Refresh			
Automatically import referenced projects found in same search-	lirectory			
Copy projects into workspace				
Open the <u>Resource Explorer</u> to browse available example projects				
第二步:将导入的工程				
复制到工作区				
? Finish	Cancel			

Figure 4-1-2

After completion, right-click the project and select "Build Project" to compile. After the compilation is completed, the entire import process is completed.

Chapter 5 Simulation Debugging of CCS6.0

5.1 Simulation Operation of CCS6.2

After the routine is imported, it is time to debug CCS and the development board. Here, the TMS320F28035 chip is taken as an example for simulation and burning test.

After importing the project above, compile directly and you can see that the io_test.out file has been generated.



You can see that it compiled successfully.

pointdebugOr pressF11You can enter the simulation debugging state



💱 CCS Debug - IO_test/main.c - Code Composer Studio					
File Edit View Project Tools Run Scripts Window Help					
🖻 🕶 🔚 🕼 🔦 🕶 🔎 🖾 🔅 🕶 🧭 🕶 🖳 💷 💷 🔍 🕫 🕼	a 🍬 🖪	• 🔊 🕅 🔶 ·	r 🕹 💣 🔻	3. 🔿	
the Debug ⊠		× -	(x)= Var	iables 🛛 😚	Expressions
4 🞲 IO_test [Code Composer Studio - Device Debugging]			Name		Tvi
A the Texas Instruments XDS100/3 LISB Debug Probe 0/C28vx (Suspended - HW Breakpoint)					
$= \min_{i=1}^{n} \min_{i=1}^{n} (i + 1) \sum_{i=1}^{n} \sum_{j=1}^{n} (i + 1) \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n$					
_args_main() at args_main.c:81 0x3Fb3D8					
c_int00() at boot28.inc:248 0x3F6300 (the entry point was reached)				
🔎 Texas Instruments XDS100v3 USB Debug Probe_0/CLA_0 (Disconnect	ed : Unknov	wn)			
🖻 main.c 🔀		🔤 Disassemb	ly ⊠		
4 {		m	ain():		
5 Uint16 i;		3f6359:	767F6172	LCR	InitSysCtr
6 for(;j>0;j)		13	EALLOW;		· · · · ·
7 tor(i=0;i<600;i++);		3f635b:	7622	EALLOW	
8}		14	GpioCtrl	Regs.GPAMU)	<pre>(1.all = 0x0000</pre>
10 void main(void)		3f635c:	761F01BE	MOVW	DP, #0x1be
		3f635e:	0200	MOVB	ACC, #0
12 InitSys(trl():		3f635f:	1E06	MOVL	@0x6, ACC
13 EALLOW:		15	GpioCtrl	Regs.GPAMU	(2.all = 0x0000
14 GpioCtrlRegs.GPAMUX1.all = 0x00000000; // All GPIO	=	316360:	1608	MOVL	@0x8, ACC
15 GpioCtrlRegs.GPAMUX2.all = 0x00000000; // All GPIO		16	0010CTr1	Regs.GPADIN	(.all = 0xFFFF
16 GpioCtrlRegs.GPADIR.all = 0xFFFFFFF; // outputs		3f6362	1901	MOVI	ACC, #1 @0xa ACC
17		18	GnioCtrl	Regs (CPBMII)	(1 all = 0x0000
<pre>18 GpioCtrlRegs.GPBMUX1.all = 0x00000000; // All GPIO</pre>		3f6363;	0200	MOVB	ACC, #0
<pre>19 GpioCtrlRegs.GPBDIR.all = 0xFFFFFFF; // outputs</pre>		3f6364:	1E16	MOVL	@0x16, ACC
20		19	GpioCtrl	Regs.GPBDI	R.all = 0xFFFF
21 EDIS;		3f6365:	1901	SUBB	ACC, #1
22 White(1)		3f6366:	1E1A	MOVL	@0x1a, ACC
20 [24 GpioDataPegs GPADAT all -0vEEEEEEE		21	EDIS;		
25 GpioDataRegs.GPRDAT.all =0xFFFFFFFF		3f6367:	761A	EDIS	
26 delav(600):	-	22	while(1)	CD1	
		316368:	FF69	SPM	#14
	,				
😑 Console 🔀					
 CDT Build Console [IQ test]					

**** Build of configuration Debug for project IO_test ****

From the above you can see a series of debugging operation buttons

CCS Debug - IO_test/main.c - Co	de Co	omposer studio	
File Edit View Project Tools	Run	Scripts Window Help	
📑 🗕 🕼 🔦 🗕 🖉 🕷	-	Connect Target	Ctrl+Alt+C
		Disconnect Target	Ctrl+Alt+D
🎋 Debug 🛛		Restore Debug State	Alt+E
a 🞲 IO_test [Code Composer Stu	Δ	Load	÷
4 🧬 Texas Instruments XDS10		Resume	EQ
main() at main.c:12 🖡		Resume	
_args_main() at args_r		Suspend	
c_int00() at boot28.inc		Terminate	Ctrl+F2
🔎 Texas Instruments XDS10	2-3	Disconnect	
	•	Go Main	Alt+M
	۲	Reset	•
🗈 main.c 🔀	లి	Restart	
4 {	Ъ	Step Into	F5
5 UINTIG 1; 6 for(:i>0:i)	3	Step Over	F6
<pre>7 for(i=0;i<600;i++</pre>	э.	Assembly Step Into	Ctrl+Shift+F5
8 }	0	Assembly Step Over	Ctrl+Shift+F6
10 void main(void)	ŝ	Step Return	F7
11 {]	Run to Line	Ctrl+R
12 InitSysCtrl();	-1	Eree Burn	Ctul I EQ
14 GpioCtrlRegs.GPAMUX1.			Curi+ro
15 GpioCtrlRegs.GPAMUX2.		Step Into Selection	
<pre>16 GpioCtrlRegs.GPADIR.a 17</pre>		Clock	+
18 GpioCtrlRegs.GPBMUX1.		Advanced	•
19 GpioCtrlRegs.GPBDIR.a	栋	Debug	F11
21 EDIS;	.0	bebug	111
22 while(1)		Debug History	•
23 { 24 GnioDataRegs GPAD		Debug As	•
25 GpioDataRegs.GPBD		Debug Configurations	
26 delay(600);	_	To only Proglamaint	Chilly Children D
*	~		Ctri+Snitt+B
📃 Console 🖾	Ø	Skip All Breakpoints	Ctrl+Alt+B
CDT Build Console [IO test]	No.	Remove All Breakpoints	
		Breakpoint Types	+
**** Build of configuration D	٢	New Breakpoint (Code Composer	r Studio)