TECHNICAL NOTE



Running Dynamic C[®] With Windows Vista[®]

Rabbit has completed its evaluation of the Dynamic C integrated development environment for compatibility with Windows Vista.

<u>Click here</u> to download the sample code for this document.

- In a PC, laptop, or workstation with only a single processor, Dynamic C runs under Windows Vista with no modifications or additional steps.
- In a PC, laptop, or workstation with a dual or multi processor, Dynamic C works with the Windows Vista operating system when the *Processor Affinity is set to 0*. This Technical Note describes how to set or verify the Processor Affinity setting. Table 1 summarizes the circumstances for how the Processor Affinity settings are made for various versions of Dynamic C.

Table 1. Flocesson Annualy Settings						
Dynamic C Version	Set Manually	Set Automatically				
Dynamic C 32 v. 6.30 (Z180 microprocessors)	Always					
Dynamic C v. 9.xx (Rabbit 2000 and Rabbit 3000 microprocessors)	Up to Dynamic C v. 9.52	Starting with Dynamic C v. 9.60				
Dynamic C v. 10.xx (Rabbit 4000 microprocessors)	Up to Dynamic C v. 10.21	Starting with Dynamic C release after Dynamic C v. 10.21				

Table 1. Processor Affinity Settings

Set/Verify Processor Affinity Manually

- 1. Once Dynamic C is installed, start Dynamic C by double-clicking the Dynamic C icon on your desktop or in your **Start** menu.
- 2. Open the Windows Task Manager by right-clicking an empty space on the Windows taskbar, and then clicking **Task Manager**.
- Click on the "Processes" tab in the Windows Task Manager, and select the Dynamic C image name. The image name you are looking for will be that of the Dynamic C .exe file, which will likely have the format Dcrab_xxx, where xxx corresponds to the version number.

plications Processes	Performance	Networking			
Image Name	User Name	CPU	Mem Usage	-	
ac conduit en.exe	user7	00	7,652 K		
acrotray.exe	user7	00	3,876 K		
WINWORD.EXE	user7	00	43,684 K		
OUTLOOK.EXE	user7	00	7,264 K		
communicator.exe	user7	00	12.812 K		
ctfmon.exe	user7	00	5,528 K		
gttask.exe	user7	00	2,104 K		
PccNTMon.exe	user7	00	4,196 K		
AGRSMMSG.exe	user7	00	2,248 K		
WISPTIS.EXE	user7	00	3,768 K		
AOM.exe	user7	00	6,464 K		
roiFileTransferAg	user7	00	22,304 K		
SCHView.exe	user7	00	2,972 K		
wmiprvse.exe	SYSTEM	00	8,864 K		
explorer.exe	user7	02	16,972 K		
Dcrab_10.11.exe	user7	00	2,500 K		
FH7.exe	user7	94	4,248 K		
Ymsgr_tray.exe	user7	00	4,444 K		
FSHOT6.EXE	user7	00	8,952 K		
Tml isten.exe	SYSTEM	00	7.348 K	-	
Show processes fr	om all users		End Proces	s	

4. Right-click on the Dynamic C image name, then click

 You will see a list of available processors and check boxes. Only CPU0 needs to be checked. Uncheck any other processors i they are checked. Click OK, and close the Windows Task Manager.

Set Processor Affinity Via Utility

A utility is included with this Technical Note to allow you to start Dynamic C with the *Processor Affinity set to 0* for versions of Dynamic C where the Processor Affinity must be set manually.

- 1. Open the **TN257.zip** file, and extract the files.
- 2. Use the Windows **Start | Run** menu to launch the **RunOnCPU0**. **exe** executable.
- 3. Use the **BROWSE** button to find the Dynamic C .exe file, which will likely have the format Dcrab_xxx, where xxx corresponds to the version number.

other processors if sk Manager.	
to start Dynamic C	
c C where the Processor	Affinity must be set

Set Affinity....

Run Selected Program with Processor 0	X
	BROWSE button
C:\DCRABBIT_10.11\Dcrab_10.11.exe	
	<u>B</u> un <u>C</u> ancel

- 4. Click **Run** to start Dynamic C with the *Processor Affinity set to 0*.
- You may also create a shortcut for your desktop by right-clicking on your desktop, then selecting New > Shortcut. Click OK when you are done setting up the shortcut.

!		\$"	#				
		#"					
н	#"%	&&'(
н							
"%		[
)	%				 		
%		!					~
\$\$	%						
	*"		ר ר	"	 -	+"	
					_		

Rabbit Semiconductor Inc.

www.digi.com