TECHNICAL NOTE



## Running Dynamic C<sup>®</sup> With Windows Vista<sup>®</sup>

RABBIT

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

- 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.

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**.
- 3. 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.

📇 Windows Task Manager 📃 🗆 🗶			- 🗆 ×		
File Options View Help					
Applicatio	ns Processes	Performance N	letworking		1
Image	e Name	User Name	CPU	Mem Usage	
ac_co	nduit_en.exe	user7	00	7,652 K	
acrot	ray.exe	user7	00	3,876 K	
WINV	VORD.EXE	user7	00	43,684 K	
OUTL	OOK.EXE	user7	00	7,264 K	
comm	unicator.exe	user7	00	12,812 K	
ctfmo	n.exe	user7	00	5,528 K	
qttas	k.exe	user7	00	2,104 K	
PecNi	Mon.exe	user7	00	4,196 K	
AGRS	MMSG.exe	user7	00	2,248 K	
WISP	TIS.EXE	user7	00	3,768 K	
AOM.	exe	user7	00	6,464 K	
roiFile	TransferAg	user7	00	22,304 K	
SCHV	iew.exe	user7	00	2,972 K	
wmip	vse.exe	SYSTEM	00	8,864 K	
explo	rer.exe	user7	02	16,972 K	
Dcrab	_10.11.exe	user7	00	2,500 K	
FH7.6	exe	user7	94	4,248 K	
Ymsg	r_tray.exe	user7	00	4,444 K	
FSHO	T6.EXE	user7	00	8,952 K	
I TmLis	ten.exe	SYSTEM	00	7.348 K	
🗖 Sho	w processes fr	om all users		End Proces	s
Processes:	43 CPU U	Jsage: 100%	Commit Cha	rge: 439M / 10	90M //

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

End Process	
End Process Tree	
Set Priority	
Set Priority Set Affinity	

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

CPU0	CPU1
ОК	Cancel

## 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.

Run Selected Program with Processor 0	×
	BROWSE
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.

Shortcut to RunOnCP	U0.exe Properties
General Shortcut Compatibility	Security
Shortcut to RunOnCPU0.exe	
Target type: Application   Target location: DCRABBIT_10   Target: C:DCRABBIT_10.	.11 11\RunOnCPU.exe Dcrab_10.11.exe
Start in: C:\DCRABBIT_1 Shortcut key: None Run: Normal window Comment: Find Target Cha	0.11\
ОК	Cancel Apply

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