

Algorithm Change Notice ACN2003-01

A change in the programming algorithm for the C-grade members of the XC18V00 Family

Overview: Xilinx intends to establish an additional manufacturer for the XC18V00™ family of In-System Programmable Configuration PROMs. This will require a change in the programming algorithm for the devices listed below.

XC18V512PC20C	XC18V01PC20C	XC18V02PC44C	XC18V04PC44C
XC18V512SO20C	XC18V01SO20C	XC18V02VQ44C	XC18V04VQ44C
XC18V512VQ44C	XC18V01VQ44C		

This change is being made to expand manufacturing capacity for these devices and to ensure continuity of supply.

Change Description: Xilinx intends to add the STMicroelectronics manufacturing facility in Catania, Italy, to manufacture the devices listed above. Please refer to [PCN2003-04](#) for more details. The STMicroelectronics offerings will be form, fit, and functionally compatible with the current product, but will require a software update to your programming algorithms. Xilinx has informed and provided the necessary information to our third party programmer partners as well as our distribution partners to ensure a smooth transition.

Additionally, the Product IDCODE has changed to:

Device	UMC IDCODE	STMicroelectronics IDCODE
XC18V512	05023093h	05033093h
XC18V01	05024093h	05034093h
XC18V02	05025093h	05035093h
XC18V04	05026093h	05036093h

Key Dates: Xilinx will have evaluation quantities of these products available by June 10, 2003. Xilinx will begin shipping production devices fabricated with the STMicroelectronics process on September 10, 2003.

Response: Users have different actions depending on the programming environment:

In-system and Stand-alone Programming Tools: Users need to update their programming algorithms by upgrading their software to one of the versions listed below:

Programming Environment	Software Version	Available	Download Site
Xilinx HW-130 Programmer users upgrade to:	5.03 or higher	Now	http://www.xilinx.com/support/troubleshooting/htm_index/sw_programmer.htm
Xilinx: <ul style="list-style-type: none"> • MultiPRO • Parallel Cable IV • Parallel Cable III • MultiLINX users upgrade to one of the following versions:	ISE WebPACK 5.2i SP3	Now	http://www.xilinx.com/webpack/static/index.htm
BP Microsystems users upgrade to:	Beta0625	June 25, 2003	http://www.bpmicro.com/
BP Microsystems (DOS) users upgrade to:	Beta0625	June 25, 2003	http://www.bpmicro.com/
Data I/O users upgrade to:	7.1 or 7.2 Extended Beta Algorithm	Now	http://www.dataio.com

ATE and Boundary-Scan Tools: Users need to regenerate their SVF files using the software version listed below and integrate these SVF files into their manufacturing flow. Users also need to download the new XC18V00 BSDL files (v1.3) located at http://www.xilinx.com/support/sw_bsd.html and regenerate test vectors that are dependent on the IDCODE within the BSDL files. Further instructions for specific ATE and Boundary Scan Tool vendors are also listed.

Software Version	Availability	Download Site
ISE WebPACK 5.2i SP3	Now	http://www.xilinx.com/webpack/static/index.htm

Boundary Scan Tool Vendor	Update
Acculogic	No further software updates required
ASSET Intertech	No further software updates required
Goepel	No further software updates required
Intellitech	No further software updates required
JTAG Technology	No further software updates required

ATE Vendor	Update
Agilent	Agilent 3070 users also need to update their SVF2VCL translator to v2.34 available at http://www.xilinx.com/isp/ate.htm
GenRad	No further software updates required
Teradyne	No further software updates required
IFR	No further software updates required

Embedded Micro-controller: Users need to regenerate their SVF files and translate the SVF to XSVF using the software listed below.

Software Version	Availability	Download Site
ISE WebPACK 5.2i SP3	Now	http://www.xilinx.com/webpack/static/index.htm

Software Version	Availability	Download Site
SVF2XSVF Translator v5.02	Now	http://www.xilinx.com/isp/microprocessor.htm

Other programmer vendors: If you are using other programmer vendors that are not listed in this document, please refer to the appropriate vendor for support information.

For further information on programming the XC18V00 cross ship devices, please refer to solution record 16741 available at <http://www.xilinx.com/support/support.htm>.

Document Revision History:

Date:	Description:
June 10, 2003	Original issue date
October 9, 2003	1. Page 2, fix hyperlink. Changed from www.bpmirco.com to www.bpmicro.com .
	2. Page 3, remove sentence "Users should upgrade their XSVF Player to v5.01".