Algorithm Change Notice ACN99001
A change in the programming algorithm for XC9500XL Family

Subject: Xilinx is making a change to the XC9500XL to improve yields. This will require a change in the programming algorithm for XC9500XL Family: XC9536XL, XC9572XL, XC95144XL, and XC95288XL.

Change Description: Xilinx is changing to a -02 on the JTAG ID register. This code is read by JTAG Programmer and other third party JTAG tools.
Additionally, the Product Code used by the HW-130 and third party programmers has changed and are:

    9536XL 30 Hex
    9572XL 31 Hex
    95144XL 32 Hex
    95288XL 33 Hex

Product Change: This is a yield enhancement. It does not affect any electrical characteristic of the devices with the exception of the programming voltages. These voltages can only be accessed externally in a special mode in a dedicated parallel programming environment such as the Xilinx HW130, or programmers offered by manufacturers such as BP Microsystems and Data I/O.

Reason for Change: Yield enhancement

Key Dates:
Product shipments began on August 19.
Shipments of older devices will continue until inventories are exhausted.

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

Xilinx HW-130 Programmer:
Software Version 4.63 (9/04/1999)
Available from the Xilinx ftp site at:
ftp://ftp.xilinx.com/pub/swhelp/programmer/hw130w32.exe

JTAGProgrammer:
1. Version M2.1i
OR
2. M1.5 (and later) with the new (Rev. 2.0) BSDL files installed. These BSDL files can currently be found at:
http://www.xilinx.com/techdocs/htm_index/sw_bsdl.htm
The file name is 'xc9500xl.zip' and contains the following BSDL files for this version of the

silicon:
xc95144xl_v2.bsd
xc95288xl_v2.bsd
xc9536xl_v2.bsd
xc9572xl_v2.bsd

3rd Party Programmer Customers:
BP Microsystems - all programmers
Use Version 3.43
This software can be found at;
http://www.bpmicro.com/
Data-IO - Unisys family of programmers
The 'extended algorithm' software for the XC9500XL family will be posted by 9/15/99 and will be available at;
ftp://ftp.data-io.com/dataio/betaalgs/59_9500xl.exe
OR
ftp://ftp.data-io.com/dataio/betaalgs/60_9500xl.exe
Other programmer vendors
If your customers are using other programmer vendors, please refer to the appropriate vendor for support information.
ATE customers:
GenRad, Teradyne, HP3070, iFR:
No changes are required if the customer created the SVF files (which are translated to the different ATE formats) using JTAGProgrammer version M1.5 or greater.
If an earlier version of JTAGProgrammer was used to create the SVF files, please upgrade to M2.1i (or M2.1i SP1) and re-generate the SVF files and the tester vectors.
Embedded micro controller customers:
No changes are required if the customer created the SVF files (which are translated to XSVF using the SVF2XSVF translator) using JTAGProgrammer version M1.5 or greater.
If an earlier version of JTAGProgrammer was used to create the SVF files, please upgrade to M2.1i (or M2.1i SP1) and regenerate the SVF and XSVF files.