ATMEL-CUPL/WinCUPL Bugs that are FIXED.
PLD Application Hotline: (408) 436-4333 ATMEL BBS: (408) 436-4309 PLD Applications Email: pld@atmel.com
The following is a list of bugs which have been fixed in the ATMEL-CUPL 5.302 and previous releases. The following Notes will allow users to determine if a new release will help them

ATV2500B Bug:
Symptoms: Cupl general incorrect equations using the Clock enable (.ce) product term even though JEDEC file only use .CK suffix. Equations are generated incorrect in .DOC file with compiling source file with state machine syntax.
10-5-95 This bug was fixed on ATMEL-CUPL V4.5c

Work-around: Do not simulate.
7-22-95 This bug is fixed with Atmel-CUPL version 4.5c.

Workaround: Write the equation as !out = !a # !b. It will reduce correctly on the PLA file.
10-5-95 Fixed ATMEL-CUPL V4.5c

Date: February 20, 2003

Symtoms: CUPL generates incorrect values of S1 and S5 bits for macrocell configured for a combinatorial output, and two Buried registed nodes Q1 and Q2. PT's for Q1 are inadvertantly combined with the output logic PT's.

9-15-95 FIXED ATMEL CUPL V4.5c	
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Bug #5 ********************	******
ATV750B Bug: (8-29-95)	
Symtoms: When more resources are use part, CUPL gives no errors and compil	

9-15-95 Fixed. ATMEL CUPL V4.5c

error and terminates, which is the correct response.

Symtoms: Configuration bit S5 set incorrectly to "1" instead of "0" for Combinatorial output, Buried Q1 node, Buried Combinatorial node.

9-27-95 Fixed ATMEL CUPL V4.5c

Symptoms: When using \$REPEAT statement with State Machine Syntax and % (modulus operator) CUPL generates incorrect equations.

Correct equations are generated for the ATV2500 device, however.

11-2-95	Fixed	ATMEL	CUPL	V4.50	C				
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Bug #8									
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ATF1500 Bug: (6-14-95)

Symtoms: This is general bug with applies to all devices since simulation for CUPL's virtual device simulator. This bug is a problem with the simulator reading the .ABS file which generates incorrect result for registered outputs. The same test vectors when run on programmer will pass.

ixed Atmel-CUPL V4.7a	
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ATF1500 Bug:

Symtoms: CUPL produces simulation error when there are no pin or node assignments in the PLD file. VSIM should be able

to simulate the equations without assignments. This bug is specific for F1500.

Workaround: Assign pin and node assignments to all pins and nodes in source file.

Fixed Atmel-CUPL V4.7a

Bug #10

ATV750/B and ATV2500/B Bug: (9-5-95)

Symtoms: Buried latch representation of combinatorial output feature available in the device not supported by CUPL. .DFB extension compiles okay in V4.4c, generates error on V4.5b. Device feature should be supported by using .DFB suffix option.

Workaround: For up to 4 PT's use PINNODE with same logic as combinatorial output.

Fixed Atmel-CUPL V4.7a

Bug #11

ATV750B Bug: (9-19-95)

Symtoms: Using "De-morganize" option in CUPL result in equation that are mapped in CUPLC as being inverted. (i.e S2 bit is set incorrectly)

Workaround: Don't use the options, or try minimization option instead to reduce product term count. Or write logic directly in De-morganized form. De-morganize option only works with virtual devices.

1-3-96 Fixed Atmel-CUPL V4.7a

ATV2500B Bug: (10-11-95)

Symptoms: When macrocell configured as a combinatorial output plus a Q2 registered node using T type flip-flops, S5 bit is being set to a '0' [thus using D type flips-flops] instead of '1'

1-19-96 Fixed Atmel-CUPL V4.7a

ATV2500B Bug: (1-9-96)

Symptoms: CUPL comfigures Q2 registered node as T flip-flops when using the NODE keyword. When PINNODE keyword and node number is used these nodes are configured correctly as D flip-flops.

Workaround: Define all nodes used in the design with the PINNODE keyword and node number. Do not use the NODE keyword.

Symptom: WinCUPL generates "Fatal Fitter Error During Processing"

2-21-96 Fixed Atmel-CUPL V4.7a

when compiling 1500 and/or 1508 file.

Workaround: This error can occur if the fitter in unable to fit your design. First check to see if you have a <filename>.fit file in your project directory. Read it (if it exists) to find out why the design didn't fit. If this file doesn't exist then you can manually run the fitter. Follow the steps below to do this:

Copy fitter executable in the same directory as the project sub-directory. Re-Compile the design.

- 1) Open the COMPILE OPTIONS.. submenu under the OUTPUT FILE menu.
- 2) Select PLA file, De-select JEDEC file output
- 3) Re-compile design in the Main menu
 The fitter will generate an output file with the (<filename>.tt2)
 extension.
- 4) Open the DOS Prompt in the UTILITIES menu.
- 5) Copy the fit1508.exe/fit1500.exe into the project Directory
- 6) Type fit1500 <filename[.tt2]> Press <return>
- 7) The fitter will attempt to fit your design. All the output files generated by the fitter will reside in the project directory.

Fixed in Wincupl 5.134

Cannot print from within the WINCUPL program.

Workaround:

WinCUPL (4.8a) Simulator Bug: 7/28/99

Adding .io extension to ORDER statement for a Field Variable in *.SI file even through supported on *.PLD file cause GPF fault when attempting to run simulator. This bug could be generalized to any output extension available in CUPL.

For example,

Order:Rset,!Ale,Aux,!Rd,!Wd,%2,DatBus.io, %2,AdrLat,%2,InpBuf,%2,OutLat;

Creates GPF fault.

Workaround:

Order:Rset,!Ale,Aux,!Rd,!Wd,%2,DatBus,
%2,AdrLat,%2,InpBuf,%2,OutLat;

Is OKAY. Where DatBus, AdrLat, InpBuf, OutLat are FIELD variable specified in the *.pld source file.

WinCUPL (V4.8a) Simulator Bug: 7/29/99 Fixed in Wincupl 5.1x
When running the simulator with an old *.so file open. WinCUPL should prompt the user to overwrite it after a new simulation is completed. This will prevent the user from having to re-open the file after every simulation to view the updated results.

Bug #21 ************************************
When trying to load a file from A: specifically targetting the 1500a device, the file compiles OK and then the find1500 window opens with a message: [007xl] could not change to specified directory.
Seems like the find1500 program is unable to find the fit1500 program ?
Fixed in Wincupl5.134 ************************************
Bug #22 ***********************************
Wincupl5.126 The file fails to compile for f1508isptqfp100 device type. problem is with a valid I/O pin number 45 not being recognized as a valid I/O.
Fixed in Wincupl 5.134 (atmel.dl was modified)
Bug #23 ************************************
Symptom:
After starting WinCUPL, following message is shown on screen: Runtime error 5.Invalid procedure call or argument.
Similar problem occurs on WINNT4.0 { European version of WINDOWS }
Fixed in Wincupl5.137
Bug #24 ************************************
Wincupl 5.126 Date: 11/19/99 Symptom:
The project navigator does not update the Files list if a given .PLD file is recompiled by choosing a different device type
Fixed in Wincupl 5.134 ************************************
Bug #25 ************************************

WinCupl version 5.126 Date : 12-15-99

Status: Fixed in 5.134

Symptom:

After downloading WinCUPL(SETUPEX.EXE file) from ATMEL website and on compiling a Sample .PLD file for the first time, the Compiler complains that version is EXPIRED. "Time Limit"shows "-693141 Days Remaining".

Bug #26

WinCUPL Version 5.134

Date: 03-23-00

Status: Fixed in 5.143

Filename: Any example targetting the ATf1508AS device

Symption:

If you compile an example file on Win NT4.0:, an error comes up in the message box:

Run EXE: Incorrect function.0 [0010ck] fitter could not fit design Fatal cupl errors:....program aborted

The example however compiled correctly on the Win98 platform.

Workaround: Copy the fit1508.exe program into your project directory and execute command: fit1508 filename.tt2 -device p1508c84 (for 84-pin Plcc)

Bug #27

WinCUPL Version 5.141

Date: 03-28-00

Device:ATF20V8B (PLCC) -Device menmonic g20v8alcc

Symptom:

If you compile a file on Win NT4.0 machine with service pack 5, the Compiler crashes. Error message on the screen: An application Error has occured. Same file compiles fine on Win95/98 machine.

Fixed: in Version 5.144

Buq #28

WinCUPL Version 5.141

Date: 06-14-00 Device: g22v10 Fixed: Rev 5.144

Symptom:

On trying to compile a file on Win NT 4.x sytem I get a runtime error:

Runtime Error (80010108)

Automation Error: The object invoked has disconnected from its client.

The same file compiles fine on WIN95/98 platform

Workaround:

Reinstall the SETUPEX.EXE file dated July2000 from Atmel website. (version 5.144)

******************* WinCUPL Version 5.143 Date: 09-11-00 Device: v2500bc Fixed: Rev 5.144 Symptom: Inconsistent compilation of files would result in the wrong Checksum depending on the Sequence in which one or more files were compiled. Inconsistency is caused only from unused I/O. ****************** WinCUPL Version 5.143 Date: 09-12-00 Device: Any example tragetting the 1500AS family Fixed: in Wincupl 5.144 Symptom: If you compile an example file on Win NT4.0:, an error comes up in the message box: Run EXE: Incorrect function.0 [0010ck] fitter could not fit design Fatal cupl errors:....program aborted In some example: Message on Screen: The instruction at "0x77e78bf4" referenced memory at "0x00000013". The memory could not be read. Click on OK to terminate the application Click on Cancel to Debug Bug #31 ******************* Date: 07-18-01 Device: ATF1504AS-T100-ISP or device menmonic f1504isptqfp100 Status: Fixed in 5.216 Build on July 18, 2001 with an updated atmel.dl

Symptom:

WIncupl generates a Fitter Report file with incorrect device type. If you check the Fitter command in the first line it reference -dev p1504t1lj instead of p1504t100

Workaround:

Manually run the Fitter from the DOS prompt. The Non-ISP device type works fine. This Bug has since been fixed on the Build released on 07_18_2001 with an updated atmel.dl file.
