



Errata

**AltiVec™ Technology Programming
Environments Manual Errata**

This errata describes corrections to the *AltiVec Technology Programming Environments Manual* (order #: ALTIVECPEM/D, rev. 0) referred to as the PEM. For convenience, the section number and page number are provided.

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Section #/Page #

Changes

2.1.2, Page 2-4 Replace Figure 2-4, “Saving/Restoring the AltiVec Context Register (VRSAVE)” with the following:

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Field	VR0	VR1	VR2	VR3	VR4	VR5	VR6	VR7	VR8	VR9	VR10	VR11	VR12	VR13	VR14	VR15
Reset	0000_0000_0000_0000															
R/W	R/W using mf spr or mt spr instructions															

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Field	VR16	VR17	VR18	VR19	VR20	VR21	VR22	VR23	VR24	VR25	VR26	VR27	VR28	VR29	VR30	VR31
Reset	0000_0000_0000_0000															
R/W	R/W using mf spr or mt spr instructions															
SPR	SPR256															

2.2, Page 2-9 Figure 2-10—The vector registers are 128 bits wide not 64 bits wide as shown.

4.2.2.4, Page 4-20 Change Table 4-9 as follows:

- the mnemonic for Vector Round to Floating-Point Integer Nearest should be **vrfin** not fvrfin.
- the mnemonic for Vector Round to Floating-Point Integer toward Zero should be **vrfiz**,not fvrfiz.
- the mnemonic for Vector Round to Floating-Point Integer toward Positive Infinity should be **vrrip**, not fvrrip.
- the mnemonic for Vector Round to Floating-Point Integer toward Minus Infinity should be **vrfin**, not fvrfin.

6.2, Page 6-24 Change the **mfvscr** encoding as shown below (note: bit 31 is not 0):

04	vD	0 0 0 0 0	0 0 0 0 0	1540
0	5 6	10 11	15 16	20 21 31

6.2, Page 6-25 Change the **mtvscr** encoding as shown below (note: bit 31 is not 0):

04	0 0 0 0 0	0 0 0 0 0	vB	1604
0	5 6	10 11	15 16	20 21 31

A.1, Page A-2 Change the **mfvscr** encoding as shown below (note: bit 31 is not 0):

mfvscr	04	vD	0 0 0 0 0	0 0 0 0 0	1540
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Section #/Page #

Changes

A.1, Page A-2

Change the **mtvscr** encoding as shown below (note: bit 31 is not 0 and **vD** should be **vB**):

mtvscr

04	0 0 0 0 0	0 0 0 0 0	vB	1604
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A.2, Page A-9

Change the **mfvscr** encoding as shown below (note: bit 31 is not 0):

mfvscr

000100	vD	0 0 0 0 0	0 0 0 0 0	110 0000 0100
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A.2, Page A-9

Change the **mtvscr** encoding as shown below (note: bit 31 is not 0):

mtvscr

000100	0 0 0 0 0	0 0 0 0 0	vB	110 0100 0100
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A.3, Page A-14

Change the **mfvscr** encoding as shown below (note: bit 31 is not 0):

mfvscr

04	vD	0 0 0 0 0	0 0 0 0 0	1540
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A.3, Page A-14

Change the **mtvscr** encoding as shown below (note: bit 31 is not 0):

mtvscr

04	0 0 0 0 0	0 0 0 0 0	vB	1604
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