

Proposal to Extend Supported and Enabled Bits

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1 Introduction

Supported and Enabled words 82-84 and 85-87 have no space for expansion. The purpose of this proposal is define some new words for new features.

2 Supported Words

Currently, supported features are indicated in words 82-84. This proposal increases this by 1 word allowing 14 new features.

7.17.7.42 currently reads “Words (84:82) shall indicate features/command sets supported. If a defined bit is cleared to zero, the indicated features/command set is not supported. If bit 14 of word 83 is set to one and bit 15 of word 83 is cleared to zero, the contents of words (83:82) contain valid support information. If not, support information is not valid in these words. If bit 14 of word 84 is set to one and bit 15 of word 84 is cleared to zero, the contents of word 84 contains valid support information. If not, support information is not valid in this word”

New wording: “Words 84:82 **and 119** shall indicate features/command sets supported. If a defined bit is cleared to zero, the indicated features/command set is not supported. If bit 14 of word 83 is set to one and bit 15 of word 83 is cleared to zero, the contents of words (83:82) contain valid support information. If not, support information is not valid in these words. If bit 14 of word 84 is set to one and bit 15 of word 84 is cleared to zero, the contents of word 84 contains valid support information. If not, support information is not valid in this word. **If bit 14 of word 119 is set to one and bit 15 of word 119 is cleared to zero, the contents of word 119 contains valid support information.** If not, support information is not valid in this word”

Change to table 15

Word	O/M	F/V	Description	
119	M		Features/Command Sets Supported	
			Bit	Description
			15	Shall be cleared to zero
			14	Shall be set to one
			13:1	Reserved
			0	Reserved for DRQ technical report

3 Enabled Words

Currently, enabled features are indicated in words 85-87. This proposal increases this by 1 word allowing 14 new features. **[Editors Note: I think it would be better to place**

this at 121 and make these 32 bit fields. This would lay things to rest for a lot longer]

7.17.7.43 currently reads “Words (87:85) shall indicate features/command sets enabled. If a defined bit is cleared to zero, the indicated features/command set is not enabled. If a supported features/command set is supported and cannot be disabled, it is defined as supported and the bit shall be set to one. If bit 14 of word 87 is set to one and bit 15 of word 87 is cleared to zero, the contents of words (87:85) contain valid information. If not, information is not valid in these words.”

New Wording: “Words 87:85 **and 120** shall indicate features/command sets enabled. If a defined bit is cleared to zero, the indicated features/command set is not enabled. If a supported features/command set is supported and cannot be disabled, it is defined as supported and the bit shall be set to one. If bit 14 of word 87 is set to one and bit 15 of word 87 is cleared to zero, the contents of words (87:85) contain valid information. **If bit 14 of word 120 is set to one and bit 15 of word 120 is cleared to zero, the contents of word 120 contain valid information.** If not, information is not valid in these words.”

Change to table 15

Word	O/M	F/V	Description	
120	M		Features/Command Sets Enabled	
			Bit	Description
			15	Shall be cleared to zero
			14	Shall be set to one
			13:1	Reserved
			0	Reserved for DRQ technical report