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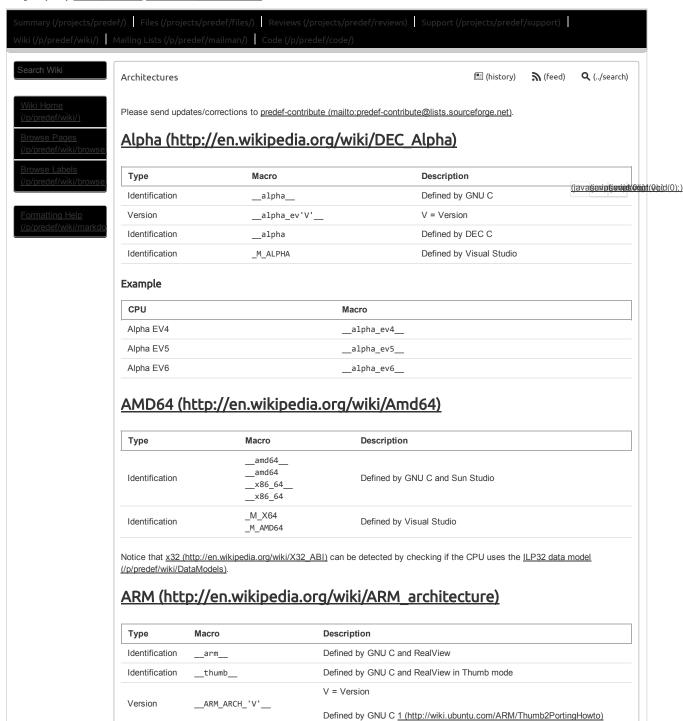
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Pre-defined Compiler Macros (/p/predef/)

Brought to you by: breese (/u/breese/), tahonermann (/u/tahonermann/)



Identification	TARGET_ARCH_ARMTARGET_ARCH_THUMB	Defined by RealView
Version	TARGET_ARCH_ARM = V TARGET_ARCH_THUMB = V	V = Version
Version	TARGET_ARCH_'VR'	VR = Version and Revision
Identification	_ARM	Defined by ImageCraft C
Identification	_M_ARM	Defined by Visual Studio
Identification	_M_ARMT	Defined by Visual Studio in Thumb mode
Version	_M_ARM = V	V = Version
Identification	arm	Defined by Diab

Example

CPU	Macro	_M_ARM
ARM 2	ARM_ARCH_2	
ARM 3	ARM_ARCH_3 ARM_ARCH_3M	
ARM 4T	ARM_ARCH_4T TARGET_ARM_4T	
ARM 5	ARM_ARCH_5 ARM_ARCH_5E	5
ARM 5T	ARM_ARCH_5T ARM_ARCH_5TE ARM_ARCH_5TEJ	
ARM 6	ARM_ARCH_6 ARM_ARCH_6J ARM_ARCH_6K ARM_ARCH_6Z_ ARM_ARCH_6ZK	6
ARM 6T2	ARM_ARCH_6T2	
ARM 7	ARM_ARCH_7 ARM_ARCH_7A ARM_ARCH_7R ARM_ARCH_7M ARM_ARCH_75	7

ARM64 (http://en.wikipedia.org/wiki/ARM64)

Туре	Macro	Description
Identification	aarch64	Defined by GNU C <u>1 (http://gcc.gnu.org/viewcvs/trunk/gcc/config/aarch64/aarch64.h?</u> view=markup)

Blackfin (http://en.wikipedia.org/wiki/Blackfin)

Туре	Macro	Description
Identification	bfin BFIN	Defined by GNU C

Convex (http://en.wikipedia.org/wiki/Convex_Computer)

Туре	Macro	Description
Identification	convex	Defined by GNU C
Version	convex_'V'	V = Version

Example

СРИ	Macro
Convex C1	convex_c1
Convex C2	convex_c2
Convex C32xx series	convex_c32

Convex C34xx series	convex_c34
Convex C38xx series	convex_c38

Epiphany (http://en.wikipedia.org/wiki/Adapteva)

Туре	Macro	
Identification	epiphany	

HP/PA RISC (http://en.wikipedia.org/wiki/PA-RISC_family)

Туре	Macro	Description
Identification	hppa	Defined by GNU C
Identification	HPPA	Defined by Stratus VOS C
Identification	hppa	
Version	_PA_RISC'V'_'R'	V = Version R = Revision

See also OpenPA.net (http://www.openpa.net).

Example

СРИ	Macro
PA RISC 1.0	_PA_RISC1_0
PA RISC 1.1	_PA_RISC1_1 HPPA11 PA7100
PA RISC 2.0	_PA_RISC2_0 RISC2_0 HPPA20 PA8000

Intel x86 (http://en.wikipedia.org/wiki/X86)

уре	Macro	Format	Description	
	i386			
Identification	i386		Defined by GNU C	
	i386			
	i386			
Version	i486		Defined by GNU C	
	i586			
	i686			
Identification	i386		Defined by Sun Studio	
Identification	i386		Defined by Stratus VOS C	
Identification	IA32		Defined by Stratus VOS C	
			Only defined for 16-bits architectures	
Identification	_M_I86		•	
			Defined by Visual Studio, Digital Mars, and Watcom C/C++ (see note below)	
			Only defined for 32-bits architectures	
Identification	_M_IX86		•	
			Defined by Visual Studio, Intel C/C++, Digital Mars, and Watcom C/C++	
Version	_M_IX86	V00	V = Version	
Identification	X86		Defined by Watcom C/C++	
Identification	_X86_		Defined by MinGW32	
Identification	THW_INTEL		Defined by XL C/C++	
Identification	186		Defined by Digital Mars	
Version	186	V	V = Version	
v CI SIUI I	100	V	v - vcision	
Identification	INTEL		Defined by CodeWarrior	
Identification	386		Defined by Diab	

architectures in this case.

Notice that the Stratus VOS is big-endian on IA32, so these macros cannot be used to detect endianness if __VOS__ is set.

Example

CPU	_M_IX86	186
80386	300	3
80486	400	4
Pentium	500	5
Pentium Pro/II	600	6

Intel Itanium (IA-64) (http://en.wikipedia.org/wiki/Itanium)

Туре	Macro	Format	Description
Identification	ia64 _IA64 IA64		Defined by GNU C
Identification	ia64		Defined by HP aCC
Identification	_M_IA64		Defined by Visual Studio
Identification	_M_IA64		Defined by Intel C/C++
Version	_M_IA64	?	
Identification	itanium		Defined by Intel C/C++

Example

CPU	_M_IA64 (Intel C/C++)
	64100

Motorola 68k (http://en.wikipedia.org/wiki/M68k)

Туре	Macro	Description
Identification	m68k	Defined by GNU C
Version	mc'V' mc'V'	V = Version
Identification	M68000	Defined by SAS/C
Identification	MC68K	Defined by Stratus VOS C
Version	MC'V'	V = Version

Example

CPU	Macro	
68000	mc68000 MC68000	
68010	mc68010	
68020	mc68020 MC68020	
68030	mc68030 MC68030	
68040	mc68040	
68060	mc68060	

MIPS (http://en.wikipedia.org/wiki/MIPS architecture)

Туре	Macro	Description	
Identification	mips mips	Defined by GNU C	
Version	_MIPS_ISA = _MIPS_ISA_MIPS'V'	V = MIPS ISA level	

Version	_R3000 _R4000 _R5900	
Identification	mips	Defined by MIPSpro and GNU C
Version	mips	The value indicates the MIPS ISA (Instruction Set Architecture) level
Version	MIPS_ISA'V'	V = MIPS ISA level
Identification	MIPS	Defined by Metrowerks

Example

CPU	_MIPS_ISA	GNU C Macro	mips	MIPSpro Macro
R2000	_MIPS_ISA_MIPS1		1	
R3000	_MIPS_ISA_MIPS1	_R3000	1	
R6000	_MIPS_ISA_MIPS2		2	MIPS_ISA2
R4000		_R4000		
R4400	_MIPS_ISA_MIPS3		3	MIPS_ISA3
R8000	_MIPS_ISA_MIPS4		4	MIPS_ISA4
R10000	_MIPS_ISA_MIPS4		4	MIPS_ISA4

PowerPC (http://en.wikipedia.org/wiki/PowerPC)

Туре	Macro	Description
Identification	powerpcpowerpc64POWERPCppcppc64PPCPPC64ARCH_PPC	Defined by GNU C
Version	ppc'V'	V = Version
Identification	_M_PPC	Defined by Visual Studio
Version	_M_PPC	?
Identification	_ARCH_PPC _ARCH_PPC64	Defined by XL C/C++
Version	_ARCH_'V'	V = Version
Version	PPCGECKO	Gekko (http://en.wikipedia.org/wiki/Gekko %28microprocessor%29) Defined by CodeWarrior
Version	PPCBROADWAY	Broadway (http://en.wikipedia.org/wiki/Broadway_%28microprocessor%29) Defined by CodeWarrior
Version	_XENON	Xenon (http://en.wikipedia.org/wiki/Xenon_%28processor%29)
Identification	ppc	Defined by Diab

Example

CPU	_M_PPC	Macro	XL Macro
PowerPC 440			_ARCH_440
PowerPC 450			_ARCH_450
PowerPC 601	601	ppc601	_ARCH_601
PowerPC 603	603	ppc603	_ARCH_603
PowerPC 604	604	ppc604	_ARCH_604
PowerPC 620	620		

Pyramid 9810

Туре	Macro	
Identification	pyr	

RS/6000 (http://en.wikipedia.org/wiki/RS/6000)

Туре	Macro	Description	
Identification	THW_RS6000	Defined by XL C/C++	
Identification	_IBMR2		
Identification	_POWER		
Identification	_ARCH_PWR _ARCH_PWR2 _ARCH_PWR3 _ARCH_PWR4	_ARCH_PWR2 _ARCH_PWR3	

SPARC (http://en.wikipedia.org/wiki/SPARC)

Туре	Macro	Description
Identification	sparc	Defined by GNU C
Identification	sparc	Defined by Sun Studio
Version	sparc_v8 sparc_v9	Defined by GNU C
Version	sparcv8 sparcv9	Defined by Sun Studio

Example

CPU	Sun Studio Macro	GNU C Macro
SPARC v8 (SuperSPARC)	sparcv8	sparc_v8
SPARC v9 (UltraSPARC)	sparcv9	sparc_v9

SuperH (http://en.wikipedia.org/wiki/SuperH)

Туре	Macro	Description	
Identification	sh	Defined by GNU C	
Version	sh1 sh2 sh3 SH3 SH4 SH5		

SystemZ (http://en.wikipedia.org/wiki/IBM System z)

Туре	Macro	Description
Identification	370	Identifies System/370 (http://en.wikipedia.org/wiki/System/370)
	THW_370	Defined by XL C/C++
Identifications390	-200	Identifies System/390 (http://en.wikipedia.org/wiki/System/390)
	5390	Defined by GNU C
Identifications39	200	Identifies z/Architecture (http://en.wikipedia.org/wiki/Z/Architecture)
	s390x	Defined by GNU C
Identification		Identifies z/Architecture (http://en.wikipedia.org/wiki/Z/Architecture)
	zarch	Defined by clang
Identification	SYSC_ZARCH	Identifies z/Architecture (http://en.wikipedia.org/wiki/Z/Architecture)
		Defined by Systems/C

TMS320 (http://en.wikipedia.org/wiki/Texas Instruments TMS320) Type Macro Description _TMS320C2XX Identification C2000 series __TMS320C2000_ _TMS320C5X Identification C5000 series __TMS320C55X_ _TMS320C6X Identification C6000 series __TMS320C6X__ Example DSP Macro C28xx _TMS320C28X C54x _TMS320C5XX C55x __TMS320C55X_ C6200 _TMS320C6200 C6400 TMS320C6400 C6400+ _TMS320C6400_PLUS C6600 _TMS320C6600 C6700 _TMS320C6700 C6700+ _TMS320C6700_PLUS C6740 _TMS320C6740 **TMS470** Type Macro Identification __TMS470__

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