\$Id: registers.mm, v 1.69 2021-05-04 11:55:59-07 - - \$

Register					Callee	Usage
	quad	long	word	byte	Saved	G
0	%rax	%eax	%ax	%al		1st return register
						used in idiv and imul instructions
						<pre><cstdarg> vector register argument count</cstdarg></pre>
1	%rcx	%ecx	%CX	%cl		4th argument register
2	%rdx	%edx	%dx	%dl		3rd argument register
						2nd return register
						used in idiv and imul instructions
3	%rbx	%ebx	%bx	%dl	Yes	
4	%rsp	%esp	% sp	%spl	Yes	stack pointer
5	%rbp	%ebp	%bp	%bpl	Yes	frame pointer (optional)
6	%rsi	%esi	% si	%sil		2nd argument register
7	%rdi	%edi	%di	%dil		1st argument register
8	% r8	%r8d	%r8w	%r8b		5th argument register
9	%r9	%r9d	%r9w	%r9b		6th argument register
10	%r10	%r10d	%r10w	%r10b		static chain pointer (optional)
11	%r11	%r11d	%r11w	%r11b		
12	%r12	%r12d	%r12w	%r12b	Yes	
13	%r13	%r13d	%r13w	%r13b	Yes	
14	%r14	%r14d	%r14w	%r14b	Yes	
15	%r15	%r15d	%r15w	%r15b	Yes	global offset table (GOT) pointer (optional)

Second byte of arithmetic registers (8086 compatibility): %ah, %bh, %ch, %dh.

Function prolog	pushq movq subq	%rpb %rsp, %rbp \$N, %rsp
Function epilog	movq popq ret	%rpb, %rsp %rbp