

if edx:eax=x then x=ecx:ebx, zf=1 else zf=0 LOCK CMPXCHG8B qword[mem] eax=8000_0002h, ..3h, ..4h ⇒ eax:ebx:ecx:edx=namestring You should check support for CMPXCHG8B with CPUID. Requires Pentium or higher. Requires Pentium (may work on some 486's).