## in arch/arm/include/asm/cputype.h

mrc p15, 0, register, c0, c0, X

从CP15的c0中读取 X 编号的register到ARM 主 register中(R0-R15)

```
#define CPUID_ID
      #define CPUID_CACHETYPE 1
 3.
      #define CPUID_TCM
 4.
     #define CPUID_TLBTYPE
     #define CPUID_MPUIR
                              4
 6.
     #define CPUID MPIDR
                              5
      #define CPUID_REVIDR
8.
      static inline unsigned int __attribute_const__ read_cpuid_id(void)
9.
10.
11.
              return read_cpuid(CPUID_ID);
12.
      }
13.
14.
      static inline unsigned int __attribute_const__ read_cpuid_cachetype(void)
15.
16.
              return read_cpuid(CPUID_CACHETYPE);
17.
      }
18.
19.
      static inline unsigned int __attribute_const__ read_cpuid_tcmstatus(void)
20.
21.
              return read_cpuid(CPUID_TCM);
22.
23.
24.
      static inline unsigned int __attribute_const__ read_cpuid_mpidr(void)
25.
26.
              return read_cpuid(CPUID_MPIDR);
27.
```

比如CPUID\_MPIDR(5)是Multiprocessor Affinity Register.

mrc p15, 0, <Rt>, c0, c0, 5; Read Multiprocessor Affinity Register