

```
/*-----  
REG51.H  
  
Header file for generic 80C51 and 80C31 microcontroller.  
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-----*/  
  
#ifndef __REG51_H__  
#define __REG51_H__  
  
/* BYTE Register */  
sfr P0    = 0x80;  
sfr P1    = 0x90;  
sfr P2    = 0xA0;  
sfr P3    = 0xB0;  
sfr PSW   = 0xD0;  
sfr ACC   = 0xE0;  
sfr B     = 0xF0;  
sfr SP    = 0x81;  
sfr DPL   = 0x82;  
sfr DPH   = 0x83;  
sfr PCON  = 0x87;  
sfr TCON  = 0x88;  
sfr TMOD  = 0x89;  
sfr TL0   = 0x8A;  
sfr TL1   = 0x8B;  
sfr TH0   = 0x8C;  
sfr TH1   = 0x8D;  
sfr IE    = 0xA8;  
sfr IP    = 0xB8;  
sfr SCON  = 0x98;  
sfr SBUF  = 0x99;  
  
/* BIT Register */  
/* PSW */  
sbit CY   = 0xD7;  
sbit AC   = 0xD6;  
sbit F0   = 0xD5;  
sbit RS1  = 0xD4;  
sbit RS0  = 0xD3;  
sbit OV   = 0xD2;  
sbit P    = 0xD0;  
  
/* TCON */  
sbit TF1  = 0x8F;  
sbit TR1  = 0x8E;  
sbit TF0  = 0x8D;  
sbit TR0  = 0x8C;  
sbit IE1  = 0x8B;  
sbit IT1  = 0x8A;  
sbit IE0  = 0x89;  
sbit IT0  = 0x88;  
  
/* IE */  
sbit EA   = 0xAF;  
sbit ES   = 0xAC;  
sbit ET1  = 0xAB;  
sbit EX1  = 0xAA;  
sbit ET0  = 0xA9;  
sbit EX0  = 0xA8;  
  
/* IP */  
sbit PS   = 0xBC;  
sbit PT1  = 0xBB;  
sbit PX1  = 0xBA;  
sbit PT0  = 0xB9;
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```
sbit PX0  = 0xB8;
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/* P3 */
```

```
sbit RD   = 0xB7;
```

```
sbit WR   = 0xB6;
```

```
sbit T1   = 0xB5;
```

```
sbit T0   = 0xB4;
```

```
sbit INT1 = 0xB3;
```

```
sbit INT0 = 0xB2;
```

```
sbit TXD  = 0xB1;
```

```
sbit RXD  = 0xB0;
```

```
/* SCON */
```

```
sbit SM0  = 0x9F;
```

```
sbit SM1  = 0x9E;
```

```
sbit SM2  = 0x9D;
```

```
sbit REN  = 0x9C;
```

```
sbit TB8  = 0x9B;
```

```
sbit RB8  = 0x9A;
```

```
sbit TI   = 0x99;
```

```
sbit RI   = 0x98;
```

```
#endif
```