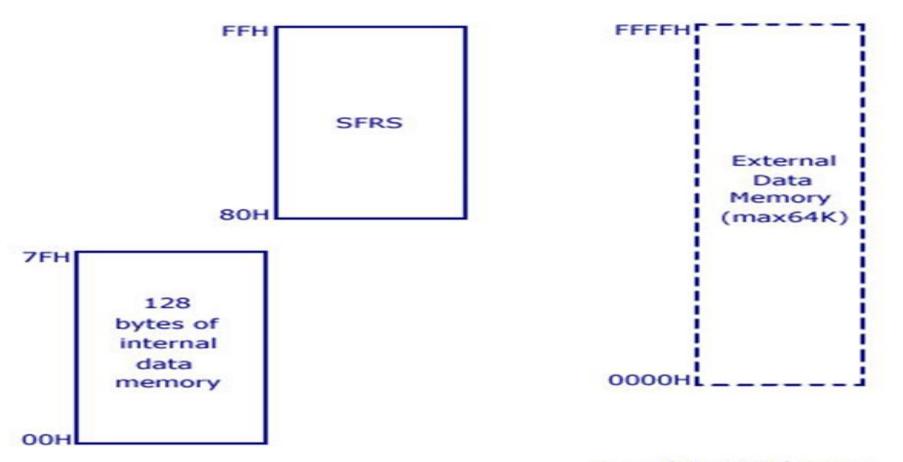
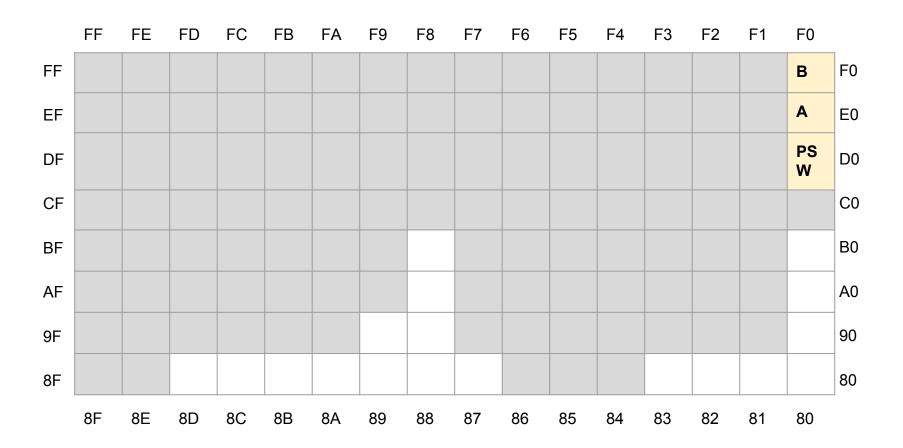
Special Function Registers

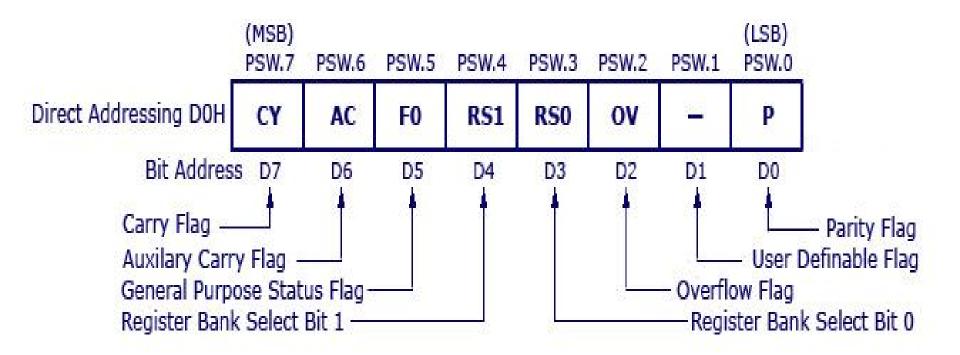
A Closer Look

Internal and External Data Memory of 8051



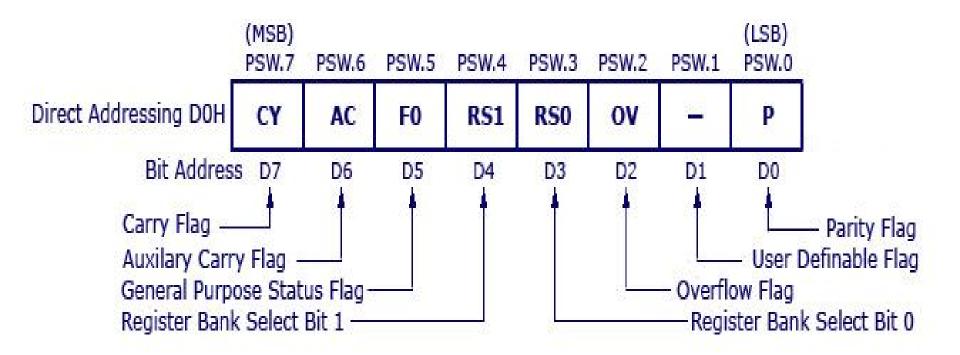
SFR MAP for 8051



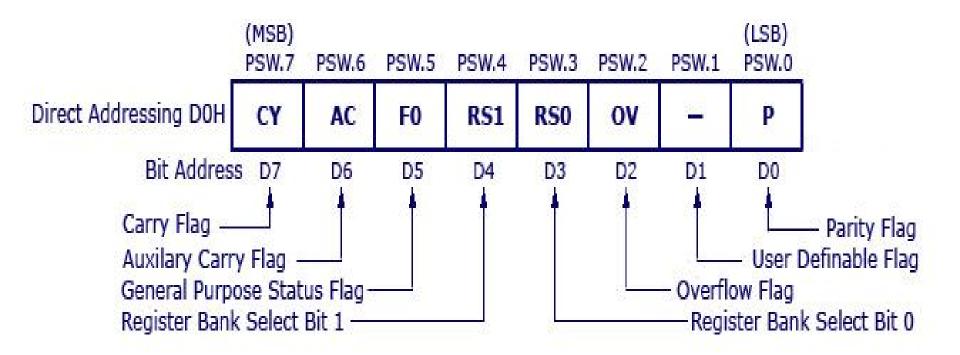


Bit Number	Bit Symbol	Direct Address	Name	Function
3	RS0	D3	Register Bank Select Bit 0	LSB of the register bank select bit
4	RS1	D4	Register Bank Select Bit 1	MSB of the register bank select bit

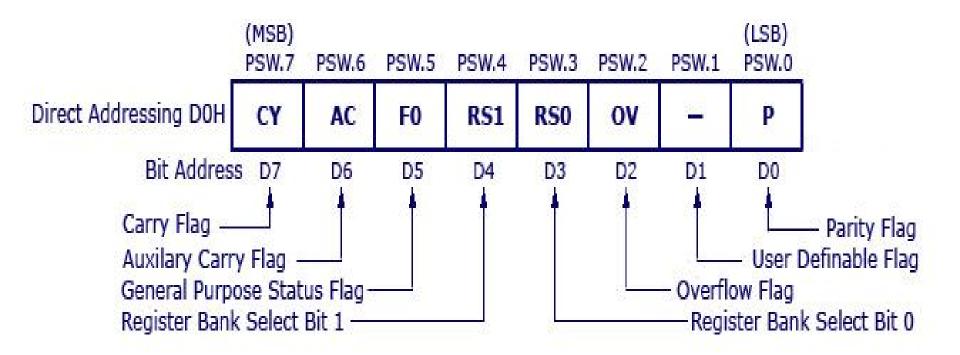
PSW.7	PSW.6	PSW.5	PSW.4	PSW.3	PSW.2	PSW.1	PSW.0
CY	AC	F0	RS1	RS0	ov		Р
				8		343 -	< Select bit
RS1	RS		egister Bank	170	Regist	ter Bank S	tatus
0	0	15	0		Register I	Bank 0 is	selected
0	1	147	1 -		Register I	Bank 1 is s	selected
1	0	## W	2		Register I	Bank 2 is :	selected
			3		Register I	Bank 2 ic	anlantad



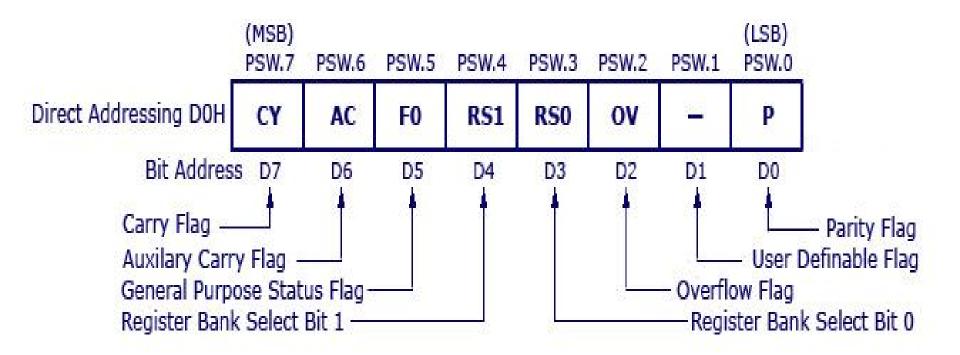
Bit Number	Bit Symbol	Direct Address	Name	Function
7	Су	D7	Carry	Set: Data is coming out of the 7th bit Or Clear



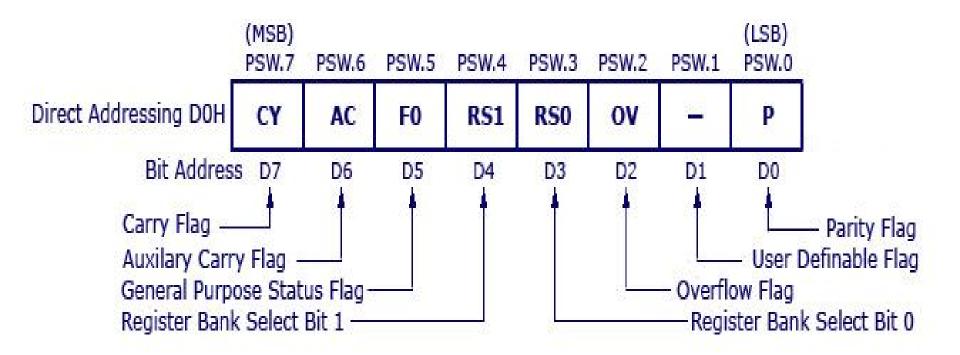
Bit Number	Bit Symbol	Direct Address	Name	Function
0	P	D0	Parity	Set: Acc has odd number of 1s after operation Or Clear



Bit Number	Bit Symbol	Direct Address	Name	Function
1	-	D1		User Definable Bit
5	F0	D5	Flag 0	User Definable Flag

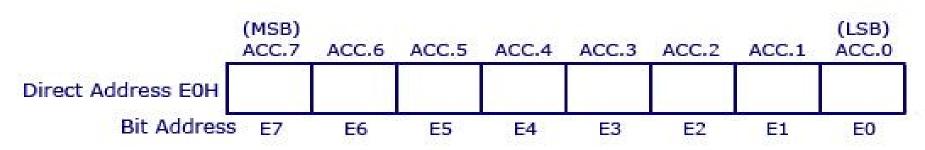


Bit Number	Bit Symbol	Direct Address	Name	Function
6	AC	D6	Auxiliary Flag	Set: Data is coming out of bit 3 to bit 4 of Acc during an arithmetic operation



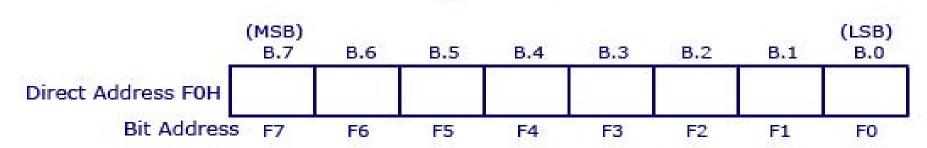
Bit Number	Bit Symbol	Direct Address	Name	Function
2	OV	D2	Overflow	Set: Carry from 7 but not from 6 (or) Carry from 6 but not from 7

Accumulator Register A



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Register B



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