

31	2827							1615							87							0							<u><b>Instruction type</b></u>
Cond	0	0	I	Opcode				S	Rn				Rd				Operand2							Data processing / PSR Transfer					
Cond	0	0	0	0	0	0	0	A	S	Rd				Rn				Rs			1	0	0	1	Rm			Multiply	
Cond	0	0	0	0	0	1	U	A	S	RdHi				RdLo				Rs			1	0	0	1	Rm			Long Multiply (v3M / v4 only)	
Cond	0	0	0	1	0	B	0	0	Rn				Rd				0 0 0 0			1	0	0	1	Rm			Swap		
Cond	0	1	I	P	U	B	W	L	Rn				Rd				Offset							Load/Store Byte/Word					
Cond	1	0	0	P	U	S	W	L	Rn				Register List													Load/Store Multiple			
Cond	0	0	0	P	U	1	W	L	Rn				Rd				Offset1			1	S	H	1	Offset2			Halfword transfer : Immediate offset (v4 only)		
Cond	0	0	0	P	U	0	W	L	Rn				Rd				0 0 0 0			1	S	H	1	Rm			Halfword transfer: Register offset (v4 only)		
Cond	1	0	1	L	Offset																	Branch							
Cond	0	0	0	1	0 0 1 0				1 1 1 1				1 1 1 1				1 1 1 1				0 0 0 1			Rn			Branch Exchange (v4T only)		
Cond	1	1	0	P	U	N	W	L	Rn				CRd				CPNum				Offset							Coprocessor data transfer	
Cond	1	1	1	0	Op1				CRn				CRd				CPNum				Op2			0	CRm			Coprocessor data operation	
Cond	1	1	1	0	Op1				L	CRn				Rd				CPNum				Op2			1	CRm			Coprocessor register transfer
Cond	1	1	1	1	SWI Number																	Software interrupt							