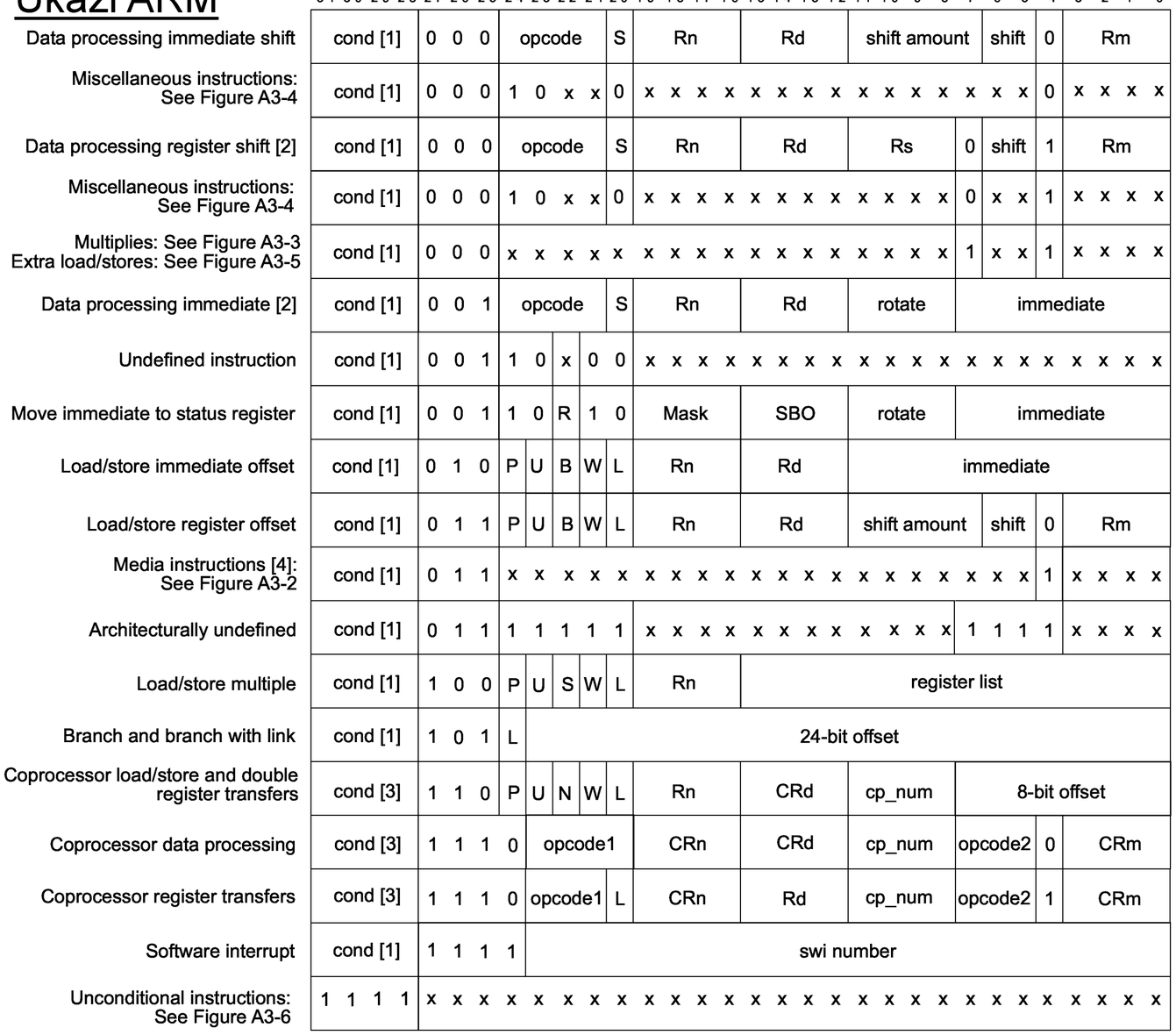
Ukazi ARM



Opcode [31:28]	Mnemonic extension	Meaning	Condition flag state
0000	EQ	Equal	Z set
0001	NE	Not equal	Z clear
0010	CS/HS	Carry set/unsigned higher or same	C set
0011	CC/LO	Carry clear/unsigned lower	C clear
0100	MI	Minus/negative	N set
0101	PL	Plus/positive or zero	N clear
0110	VS	Overflow	V set
0111	VC	No overflow	V clear
1000	HI	Unsigned higher	C set and Z clear
1001	LS	Unsigned lower or same	C clear or Z set
1010	GE	Signed greater than or equal	N set and V set, or N clear and V clear (N == V)
1011	LT	Signed less than	N set and V clear, or N clear and V set (N != V)
1100	GT	Signed greater than	Z clear, and either N set and V set, or N clear and V clear (Z == 0,N == V)
1101	LE	Signed less than or equal	Z set, or N set and V clear, or N clear and V set (Z == 1 or N != V)
1110	AL	Always (unconditional)	-
1111	-	See *Condition code 0b1111*	-

Pogoji ARM

Izjeme ARM

Address	Exception	Mode on entry	I state on entry	F state on entry
0x00000000	Reset	Supervisor	Disabled	Disabled
0x00000004	Undefined instruction	Undefined	I	F
0x00000008	Software interrupt	Supervisor	Disabled	F
0x0000000C	Abort (Prefetch)	Abort	I	F
0x00000010	Abort (Data)	Abort	I	F
0x00000014	Reserved	Reserved	-	-
0x00000018	IRQ	IRQ	Disabled	F
0x0000001C	FIQ	FIQ	Disabled	Disabled

Modes

Privileged modes

Exception modes

M=10000	M=11111	M=10011	M=10111	M=11011	M=10010	M=10001
User	**System**	**Supervisor**	**Abort**	**Undefined**	**Interrupt**	**Fast interrupt**
R0	R0	R0	R0	R0	R0	R0
R1	R1	R1	R1	R1	R1	R1
R2	R2	R2	R2	R2	R2	R2
R3	R3	R3	R3	R3	R3	R3
R4	R4	R4	R4	R4	R4	R4
R5	R5	R5	R5	R5	R5	R5
R6	R6	R6	R6	R6	R6	R6
R7	R7	R7	R7	R7	R7	R7
R8	R8	R8	R8	R8	R8	R8_fiq
R9	R9	R9	R9	R9	R9	R9_fiq
R10	R10	R10	R10	R10	R10	R10_fiq
R11	R11	R11	R11	R11	R11	R11_fiq
R12	R12	R12	R12	R12	R12	R12_fiq
R13	R13	R13_svc	R13_abt	R13_und	R13_irq	R13_fiq
R14	R14	R14_svc	R14_abt	R14_und	R14_irq	R14_fiq
PC	PC	PC	PC	PC	PC	PC
CPSR	CPSR	CPSR	CPSR	CPSR	CPSR	CPSR
		SPSR_svc	SPSR_abt	SPSR_und	SPSR_irq	SPSR_fiq

indicates that the normal register used by User or System mode has been replaced by an alternative register specific to the exception mode

Registri jedra ARM

Program Status Register