$SAVE

$NOLIST

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; DALLAS DS87C520 Processor Declarations \*/

; BYTE Registers

P0 DATA 080H

P1 DATA 090H

P2 DATA 0A0H

P3 DATA 0B0H

PSW DATA 0D0H

ACC DATA 0E0H

B DATA 0F0H

SP DATA 081H

DPL DATA 082H

DPH DATA 083H

PCON DATA 087H

TCON DATA 088H

TMOD DATA 089H

TL0 DATA 08AH

TL1 DATA 08BH

TH0 DATA 08CH

TH1 DATA 08DH

IE DATA 0A8H

IP DATA 0B8H

SCON0 DATA 098H

SBUF0 DATA 099H

; DS8xC520/530 Extensions

DPL1 DATA 084H

DPH1 DATA 085H

DPS DATA 086H

CKCON DATA 08EH

EXIF DATA 091H

TRIM DATA 096H ;8xC530 only!

SADDR0 DATA 0A9H

SADDR1 DATA 0AAH

SADEN0 DATA 0B9H

SADEN1 DATA 0BAH

SCON1 DATA 0C0H

SBUF1 DATA 0C1H

ROMSIZE DATA 0C2H

PMR DATA 0C4H

STATUS DATA 0C5H

TA DATA 0C7H

T2CON DATA 0C8H

T2MOD DATA 0C9H

RCAP2L DATA 0CAH

RCAP2H DATA 0CBH

TL2 DATA 0CCH

TH2 DATA 0CDH

WDCON DATA 0D8H

EIE DATA 0E8H

RTASS DATA 0F2H ;8xC530 only!

RTAS DATA 0F3H ;8xC530 only!

RTAM DATA 0F4H ;8xC530 only!

RTAH DATA 0F5H ;8xC530 only!

EIP DATA 0F8H

RTCC DATA 0F9H ;8xC530 only!

RTCSS DATA 0FAH ;8xC530 only!

RTCS DATA 0FBH ;8xC530 only!

RTCM DATA 0FCH ;8xC530 only!

RTCH DATA 0FDH ;8xC530 only!

RTCD0 DATA 0FEH ;8xC530 only!

RTCD1 DATA 0FFH ;8xC530 only!

; BIT Registers

; \*\*\* PSW \*\*\*

CY BIT 0D7H

AC BIT 0D6H

F0 BIT 0D5H

RS1 BIT 0D4H

RS0 BIT 0D3H

OV BIT 0D2H

FL BIT 0D1H

P BIT 0D0H

; \*\*\* TCON \*\*\*

TF1 BIT 08FH

TR1 BIT 08EH

TF0 BIT 08DH

TR0 BIT 08CH

IE1 BIT 08BH

IT1 BIT 08AH

IE0 BIT 089H

IT0 BIT 088H

; \*\*\* IE \*\*\*

EA BIT 0AFH

ES1 BIT 0AEH

ET2 BIT 0ADH

ES0 BIT 0ACH

ET1 BIT 0ABH

EX1 BIT 0AAH

ET0 BIT 0A9H

EX0 BIT 0A8H

; \*\*\* IP \*\*\*

PS1 BIT 0BEH

PT2 BIT 0BDH

PS0 BIT 0BCH

PT1 BIT 0BBH

PX1 BIT 0BAH

PT0 BIT 0B9H

PX0 BIT 0B8H

; \*\*\* P1 \*\*\*

INT5 BIT 097H

INT4 BIT 096H

INT3 BIT 095H

INT2 BIT 094H

TXD1 BIT 093H

RXD1 BIT 092H

T2EX BIT 091H

T2 BIT 090H

; \*\*\* P3 \*\*\*

RD BIT 0B7H

WR BIT 0B6H

T1 BIT 0B5H

T0 BIT 0B4H

INT1 BIT 0B3H

INT0 BIT 0B2H

TXD0 BIT 0B1H

RXD0 BIT 0B0H

; \*\*\* SCON0 \*\*\*

SM0 BIT 09FH ;Alternate SM0\_FE0

SM1 BIT 09EH ;Alternate SM10

SM2 BIT 09DH ;Alternate SM20

REN BIT 09CH ;Alternate REN0

TB8 BIT 09BH ;Alternate TB80

RB8 BIT 09AH ;Alternate RB80

TI BIT 099H ;Alternate TI0

RI BIT 098H ;Alternate RI0

; \*\*\* SCON1 \*\*\*

SM01 BIT 0C7H

SM11 BIT 0C6H

SM21 BIT 0C5H

REN1 BIT 0C4H

TB81 BIT 0C3H

RB81 BIT 0C2H

TI1 BIT 0C1H

RI1 BIT 0C0H

; \*\*\* T2CON \*\*\*

TF2 BIT 0CFH

EXF2 BIT 0CEH

RCLK BIT 0CDH

TCLK BIT 0CCH

EXEN2 BIT 0CBH

TR2 BIT 0CAH

C\_T2 BIT 0C9H

CP\_RL2 BIT 0C8H

; \*\*\* WDCON \*\*\*

SMOD BIT 0DFH

POR BIT 0DEH

EPFI BIT 0DDH

PFI BIT 0DCH

WDIF BIT 0DBH

WDRF BIT 0DAH

EWT BIT 0D9H

RWT BIT 0D8H

; \*\*\* EIE \*\*\*

ERTCI BIT 0EDH ;8xC530 only!

EWDI BIT 0ECH

EX5 BIT 0EBH

EX4 BIT 0EAH

EX3 BIT 0E9H

EX2 BIT 0E8H

; \*\*\* EIP \*\*\*

PRTCI BIT 0FDH ;8xC530 only!

PWDI BIT 0FCH

PX5 BIT 0FBH

PX4 BIT 0FAH

PX3 BIT 0F9H

PX2 BIT 0F8H

$RESTORE