frequency of one half the digital sampling frequency. With proper choice of sampling frequency, this notch filter can be used to notch parasitic mechanical resonance frequencies, such as those of the servo motor being compensated. In the drive 10 of Fig. 1, and the alternate preferred embodiments thereof, the single lead complex lag compensation circuit is used to suppress mechanical decoupling resonance of the fine and focus servo motors as shown in the following section.

Transfer Functions

The following mathematical derivations illustrate the transfer functions of the digital lead/lag compensation circuit of the present invention. The focus loop transfer function will be shown and discussed first. This discussion is followed by a similar detailed description of the compensation transfer functions.

Focus Loop Transfer Function:

Shift in frequency at 23 C

$T_{factor} = 1$

$\omega_0 = 2\cdot\pi\cdot 3000$



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ACTUATOR MODEL: Decoupling Frequency:

$\omega_1 = T_{factor}\cdot 2\cdot\pi\cdot 33\cdot 10^3 \quad \zeta_1 = 0.01 \quad H_1(s) = \dfrac{2\cdot\zeta_1\cdot\omega_1\cdot s + \omega_1^2}{\left(s^2 + 2\cdot\zeta_1\cdot\omega_1\cdot s + \omega_1^2\right)}$

Parasitic Resonance:

$\omega_3 = T_{factor}\cdot 2\cdot\pi\cdot 23\cdot 10^3 \quad \zeta_3 = 0.03 \quad \omega_2 = T_{factor}\cdot 2\cdot\pi\cdot 27\cdot 10^3$

$\zeta_2 = \zeta_3\cdot\left(\dfrac{\omega_2}{\omega_3}\right) \quad H_2(s) = \left(\dfrac{s^2 + 2\cdot\zeta_2\cdot\omega_2\cdot s + \omega_2^2}{s^2 + 2\cdot\zeta_3\cdot\omega_3\cdot s + \omega_3^2}\right)\cdot\left(\dfrac{\omega_3^2}{\omega_2^2}\right)$

HF Phase Loss:

$\omega_4 \quad 2\cdot\pi\cdot 100\cdot 10^3 \quad \tau_4 \quad \dfrac{1}{\omega_4} \quad H_3(s) \quad \dfrac{1}{1 \quad \tau_4\cdot s}$



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Fundamental Frequency:

$M_{constant} = 790 \quad m/(s\hat{}2*A)$

$\omega_5 := T_{factor} \cdot 2 \cdot \pi \cdot 36.9 \quad \zeta_5 = 0.08$

$$H_4(s) := \frac{M_{constant}}{\omega_5^2} \cdot \left(\frac{\omega_5^2}{s^2 + 2 \cdot \zeta_5 \cdot \omega_5 \cdot s + \omega_5^2} \right)$$

Actuator Response:

$$H_{actuator}(s) = H_1(s) \cdot H_2(s) \cdot H_3(s) \cdot H_4(s)$$

DSP MODEL: Single Lead Complex Lag Circuit:

Sample Period $T = 20 \cdot 10^{-6}$

$$H_{leadlag}(s) = \frac{1 + \frac{0.107}{e^{(s \cdot T)}} - \frac{0.893}{\left[e^{(s \cdot T)}\right]^2}}{1 + \frac{0.356}{e^{(s \cdot T)}} + \frac{0.136}{\left[e^{(s \cdot T)}\right]^2}}$$

DSP S&H and Processing Delay:

$$ZOH(s) = \left(\frac{1 - \exp(-s \cdot T)}{s \cdot T} \right) \quad T_{delay} = 3.3 \cdot 10^{-6} \quad H_{delay}(s) = \exp\left(-s \cdot T_{delay}\right)$$

DSP Response:

$$H_{dsp}(s) = \left(ZOH(s) \cdot H_{delay}(s) \cdot H_{leadlag}(s)\right)$$

Anti-aliasing Filter:

$$R_{filt} = 20000 \quad C_{filt} = 100 \cdot 10^{-12} \quad \tau_{filt} = R_{filt} \cdot C_{filt} \quad H_{filt}(s) = \frac{1}{1 + s \cdot \tau_{filt}}$$

$$F_{filt} := \frac{1}{2 \cdot \pi \cdot \tau_{filt}} \quad F_{filt} = 7.958 \cdot 10^{4}$$

Simplified Focus Power Amp Response:

$\omega_{pa1} \quad 2 \cdot \pi \cdot 28000 \quad \zeta_{pa1} \quad 4 \quad G_{pa1} \quad 0.098 \frac{A}{V} \quad G_{pa2} \quad \frac{5 \ V}{2^{16} \ bit}$

$\omega_{pa2} := 2\cdot\pi\cdot 450000 \quad \zeta_{pa2} := 0.8 \quad G_{pa} := G_{pa1}\cdot G_{pa2}$ A/BIT

$G_{pa}\cdot M_{constant} := 5.907\cdot 10^{-3}\,\frac{m}{s^2\cdot bit} \quad G_{pa} = 7.477\cdot 10^{-6}$

$$H_{pa}(s) := G_{pa}\cdot\left(\frac{\omega_{pa1}^2}{s^2 + 2\cdot\zeta_{pa1}\cdot\omega_{pa1}\cdot s + \omega_{pa1}^2}\right)\cdot\left(\frac{\omega_{pa2}^2}{s^2 + 2\cdot\zeta_{pa2}\cdot\omega_{pa2}\cdot s + \omega_{pa2}^2}\right)$$

Focus Error Signal:

$Slope := 0.1\,\frac{QSum}{\mu m} \quad G_{fe} := \frac{2^{16}\ Bit}{2QSum} \quad H_{fe} := Slope\cdot G_{fe}\cdot 10^6\,\frac{Bit}{m} \quad H_{fe} = 3.277\cdot 10^9$

Filter Response:

$H(s) := H_{filt}(s)$ Volts/Volt

DSP Response:

$H(s) := H_{dsp}(s)$ Volts/Volt

Power Amp Response:

$H(s) := H_{pa}(s)$ Amps/bit

Actuator Response:

$H(s) := H_{actuator}(s)$ m/a

Focus Error Response:

$H(s) := H_{fe}$ bit/m

Open Loop Response:

$H(s) \quad H_{filt}(s)\cdot H_{dsp}(s)\cdot H_{pa}(s)\cdot H_{actuator}(s)\cdot H_{fe}$

Gain Factor.

$$G = \frac{1}{\left|H(\omega_0)\right|} \qquad G = 36.059$$

Closed Loop Response:

$$H_{cl}(s) = \frac{G \cdot H(s)}{1 + G \cdot H(s)}$$

Generating Nyquist diagram with "M-circles":

Selected amounts of closed loop peaking M_p:

$j = 1..4$

$$M = \begin{bmatrix} 1.3 \\ 1.5 \\ 2.0 \\ 4.0 \end{bmatrix}$$

Radius of M-circle

$$R_j = \frac{M_j}{1 - (M_j)^2}$$

Center of M-circle

$$Ctr_j = \frac{(M_j)^2}{1 - (M_j)^2}$$

$n_2 := 100 \qquad m = 1..n_2 \qquad min2_j = R_j + Ctr_j \quad max2_j = -R_j + Ctr_j$

$$x_{m,j} := min2_j + (max2_j - min2_j) \cdot \frac{(m-1)}{(n_2 - 1)}$$

$y_{m,j} := R_j^2 - (x_{m,j} - Ctr_j)^2 \qquad z_{m,j} := R_j^2 - (x_{m,j} - Ctr_j)^2$

$n := 300 \qquad k := 1..n \qquad N_k := 1000 + 100 \cdot k$

Data for bode plots:

$$min := 100 \qquad max := 10 \cdot 10^4 \qquad r := \ln\left(\frac{max}{min}\right) \qquad f_k := min \cdot e^{k \cdot \frac{r}{n}} \qquad deg := \frac{\pi}{180}$$

$$Magn(s) := 20 \cdot \log(|G \cdot H(s)|)$$

$$\phi(s) := angle(Re(H(s)), Im(H(s))) - 360 \cdot deg$$

$$Magn_1(s) := 20 \cdot \log\left(\left|H_{cl}(s)\right|\right)$$

$$\phi_1(s) := angle\left(Re\left(H_{cl}(s)\right), Im\left(H_{cl}(s)\right)\right) - 360 \cdot deg$$

As shown in Fig. 124, the Nyquist diagram of the focus loop transfer function includes equal-peaking-loci which create M-circles 9-22, 9-24, 9-26, and 9-28. Each having an M_p value of 4.0, 2.0, 1.5, 1.3 respectively. Fig. 124 also shows loop curve 9-30 as generated from the open loop equations above. Fig. 125 shows the magnitude curve of the open loop response 9-32, and the closed loop response magnitude curve 9-34. Fig. 126 shows the phase curve of the open loop response 9-36 and the closed loop response phase curve 9-38.

Compensation Transfer Functions:

$$T := 20 \cdot 10^{-6} \qquad \omega_0 := 2 \cdot \pi \cdot i \cdot 3000$$

DSP S&H and Processing Delay:

$$ZOH(s) := \left(\frac{1 - \exp(-s \cdot T)}{s \cdot T}\right) \qquad T_{delay} := 2.5 \cdot 10^{-6} \qquad H_{delay}(s) := \exp\left(-s \cdot T_{delay}\right)$$

DSP MODEL: Triple Lead/Lag Circuit:

$$\tau_{lead} := \frac{1}{2 \cdot \pi \cdot 2185} \qquad \tau_{lag} := \frac{1}{2 \cdot \pi \cdot 5848}$$

Bilateral Transform $s = \frac{2}{T} \cdot \left(\frac{z - 1}{z + 1}\right)$

$$H_{leadlag}(s) := \left(\frac{1 + \tau_{lead} \cdot s}{1 + \tau_{lag} \cdot s}\right) \qquad H_{leadlag}(z) := \left(\frac{1 + 2 \cdot \frac{\tau_{lead}}{T} \cdot (z - 1)}{1 + 2 \cdot \frac{\tau_{lag}}{T} \cdot (z - 1)}\right)$$

$$\frac{T - 2\cdot\tau_{lead}}{T + 2\cdot\tau_{lead}} = -0.759 \qquad H_{leadlag}(z) = \frac{\left(T\cdot z + T + 2\cdot\tau_{lead}\cdot z - 2\cdot\tau_{lead}\right)}{\left(T\cdot z + T + 2\cdot\tau_{lag}\cdot z - 2\cdot\tau_{lag}\right)}$$

$$\frac{T - 2\cdot\tau_{lag}}{T + 2\cdot\tau_{lag}} = -0.463 \qquad H_{leadlag}(z) = \frac{\left[1 + \left[\frac{\left(T - 2\cdot\tau_{lead}\right)}{\left(T + 2\cdot\tau_{lead}\right)}\right]\cdot\frac{1}{z}\right]}{\left[1 + \left[\frac{\left(T - 2\cdot\tau_{lag}\right)}{\left(T + 2\cdot\tau_{lag}\right)}\right]\cdot\frac{1}{z}\right]}$$

Definition of z $\qquad z = e^{s\cdot T}$

$$H_{TripleComp}(s) = \left[\frac{\left[1 + \left[\frac{\left(T - 2\cdot\tau_{lead}\right)}{\left(T + 2\cdot\tau_{lead}\right)}\right]\cdot\frac{1}{\exp(s\cdot T)}\right]}{\left[1 + \left[\frac{\left(T - 2\cdot\tau_{lag}\right)}{\left(T + 2\cdot\tau_{lag}\right)}\right]\cdot\frac{1}{\exp(s\cdot T)}\right]}\right]^3$$

Triple Lead Lag Response:

$$H_{Triple}(s) = \frac{ZOH(s)\cdot H_{delay}(s)\cdot H_{TripleComp}(s)}{\left|H_{TripleComp}(\omega_0)\right|}$$

Single Lead Lag Response:

$$\tau_{lead} = \frac{1}{2\cdot\pi\cdot 1000} \qquad \tau_{lag} = \frac{1}{2\cdot\pi\cdot 25000}$$

$$H_{LeadLag}(s) \quad 1 \quad \left(\frac{T - 2\cdot\tau_{lead}}{T - 2\cdot\tau_{lead}}\right)\cdot\frac{1}{\exp(s\cdot T)} \quad 1 \quad \left(\frac{T - 2\cdot\tau_{lag}}{T - 2\cdot\tau_{lag}}\right)\cdot\frac{1}{\exp(s\cdot T)}$$

$$H_{Single}(s) = \frac{ZOH(s)\cdot H_{delay}(s)\cdot H_{LeadLag}(s)}{\left|H_{LeadLag}(\omega_0)\right|}$$

Complex Lead Lag:

$\omega_{center} := 2\cdot\pi\cdot 2200$ Span = 1.0 $\omega_2 = \omega_{center} - 0.5\cdot Span\cdot\omega_{center}$

$\omega_3 = \frac{\omega_{center}^2}{\omega_2}$ ζ_3 =1.7 ζ_2 = 0.707

$$H_{Compl}(s) = \left(\frac{s^2 + 2\cdot\zeta_2\cdot\omega_2\cdot s + \omega_2^2}{s^2 + 2\cdot\zeta_3\cdot\omega_3\cdot s + \omega_3^2}\right)\cdot\left(\frac{\omega_3^2}{\omega_2^2}\right)$$

$\frac{\omega_2}{2\cdot\pi} = 1.1\cdot 10^3$

$\frac{\omega_3}{2\cdot\pi} = 4.4\cdot 10^3$

$$H_{Compl}(z) = \frac{\left[\frac{4}{T^2}\cdot\frac{(z-1)^2}{(z+1)^2} + 4\cdot\zeta_2\cdot\frac{\omega_2}{T}\cdot\frac{(z-1)}{(z+1)} + \omega_2^2\right]\cdot\frac{\omega_3^2}{\omega_2^2}}{\left[\frac{4}{T^2}\cdot\frac{(z-1)^2}{(z+1)^2} + 4\cdot\zeta_3\cdot\frac{\omega_3}{T}\cdot\frac{(z-1)}{(z+1)} + \omega_3^2\right]}$$

$$H_{Compl}(z) = \frac{\left(4\cdot z^2 - 8z + 4 + 4\cdot\zeta_2\cdot\omega_2\cdot T\cdot z^2 - 4\cdot\zeta_2\cdot\omega_2\cdot T + \omega_2^2\cdot T^2\cdot z^2 + 2\cdot\omega_2^2\cdot T^2\cdot z + \omega_2^2\cdot T^2\right)\cdot\frac{\omega_3^2}{\omega_2^2}}{\left(4\cdot z^2 - 8\cdot z + 4 + 4\cdot\zeta_3\cdot\omega_3\cdot T\cdot z^2 - 4\cdot\zeta_3\cdot\omega_3\cdot T + \omega_3^2\cdot T^2\cdot z^2 + 2\cdot\omega_3^2\cdot T^2\cdot z + \omega_3^2\cdot T^2\right)}$$

$$H_{Compl}(z) = \frac{\left[\left(4 + \omega_2^2\cdot T^2 + 4\cdot\zeta_2\cdot\omega_2\cdot T\right)\cdot z^2 + \left(-8 + 2\cdot\omega_2^2\cdot T^2\right)\cdot z - 4\cdot\zeta_2\cdot\omega_2\cdot T + 4 + \omega_2^2\cdot T^2\right]\cdot\frac{\omega_3^2}{\omega_2^2}}{\left[\left(4 + \omega_3^2\cdot T^2 + 4\cdot\zeta_3\cdot\omega_3\cdot T\right)\cdot z^2 + \left(-8 + 2\cdot\omega_3^2\cdot T^2\right)\cdot z - 4\cdot\zeta_3\cdot\omega_3\cdot T + 4 + \omega_3^2\cdot T^2\right]}$$

$$H_{Compl}(z) = \frac{\left[\left(4 + \omega_2^2\cdot T^2 + 4\cdot\zeta_2\cdot\omega_2\cdot T\right) + \left(-8 + 2\,\omega_2^2\cdot T^2\right)\cdot z^{-1} + \left(4 + \omega_2^2\cdot T^2 - 4\cdot\zeta_2\cdot\omega_2\cdot T\right)\cdot z^{-2}\right]\cdot\frac{\omega_3^2}{\omega_2^2}}{\left[\left(4 + \omega_3^2\cdot T^2 + 4\cdot\zeta_3\cdot\omega_3\cdot T\right) + \left(-8 + 2\cdot\omega_3^2\cdot T^2\right)\cdot z^{-1} + \left(4 + \omega_3^2\cdot T^2 - 4\cdot\zeta_3\cdot\omega_3\cdot T\right)\cdot z^{-2}\right]}$$

$$H_{Compl}(s) \quad \frac{4\ \omega_2^2\cdot T^2\ 4\,\zeta_2\,\omega_2\,T\ \left(8\ 2\cdot\omega_2^2\cdot T^2\right)\ \exp(s\,T)\ \left(4\cdot\zeta_2\,\omega_2\,T\ 4\ \omega_2^2\,T^2\right)\ \exp(s\cdot T)^2\ \omega_3^2}{4\ \omega_3^2\,T^2\ 4\,\zeta_3\,\omega_3\,T\ 8\ 2\,\omega_3^2\,T^2\ \exp(s\,T)\ 4\,\zeta_3\,\omega_3\,T\ 4\ \omega_3^2\,T^2\ \exp(s\,T)^2\ \omega_2^2}$$

$$H_{Complex}(s) = \frac{ZOH(s)\cdot H_{delay}(s)\cdot H_{Compl}(s)}{\left|H_{Compl}(\omega_0)\right|}$$

Analog Box Compensation:

$\tau_{lead} = 20.5\cdot 10^3\cdot 0.01\cdot 10^{-6}$ $\tau_{lag} = 0.01\cdot 10^{-6}\cdot\frac{20.5\cdot 2.05}{(20.5+2.05)}\cdot 10^3$

$\tau_{lp} = 330\cdot 10^{-12}\cdot 20.5\cdot 10^3$

$$H_{ABox}(s) = \left(\frac{1+\tau_{lead}\cdot s}{1+\tau_{lag}\cdot s}\right)\cdot\frac{1}{1+\tau_{lp}\cdot s} \qquad H_{AnalogBox}(s) = \frac{H_{ABox}(s)}{\left|H_{ABox}(\omega_0)\right|}$$

Single Lead Complex Lag:

$\omega_6 = 2\cdot\pi\cdot 900$ $\omega_7 = 2\cdot\pi\cdot 22000$ $\zeta_7 = 0.8$

$$H_{Compl}(s) = \frac{(s+\omega_6)}{\left(s^2+2\cdot\zeta_7\cdot\omega_7\cdot s+\omega_7{}^2\right)}\cdot\frac{\omega_7{}^2}{\omega_6}$$

$$H_{Compl}(z) = \frac{\left[\frac{2}{T}\cdot\frac{(z-1)}{(z+1)}+\omega_6\right]}{\left[\frac{4}{T^2}\cdot\frac{(z-1)^2}{(z+1)^2}+4\cdot\zeta_7\cdot\frac{\omega_7}{T}\cdot\frac{(z-1)}{(z+1)}+\omega_7{}^2\right]}\cdot\frac{\omega_7{}^2}{\omega_6}$$

$$H_{Compl}(z) = \frac{\left(2\cdot z-2+\omega_6\cdot T\cdot z+\omega_6 T\right)\cdot((z+1)\cdot T)}{\left(4\cdot z^2-8\cdot z+4+4\cdot\zeta_7\cdot\omega_7\cdot T\cdot z^2-4\cdot\zeta_7\cdot\omega_7\cdot T+\omega_7{}^2\cdot T^2\cdot z^2+2\cdot\omega_7{}^2\cdot T^2\cdot z+\omega_7{}^2\cdot T^2\right)}\frac{\omega_7{}^2}{\omega_6}$$

$$H_{Compl}(z) = \frac{\left(2\,T\cdot z^2-2\,T+\omega_6\cdot T^2\cdot z^2-2\,\omega_6\cdot T^2\cdot z-\omega_6 T^2\right)}{\left(4\,z^2-8\,z+4-4\cdot\zeta_7\,\omega_7\,T\,z^2-4\,\zeta_7\,\omega_7\,T-\omega_7{}^2\,T^2\,z^2-2\,\omega_7{}^2\cdot T^2\,z-\omega_7{}^2\cdot T^2\right)}\frac{\omega_7{}^2}{\omega_6}$$

$$H_{Compl}(z) = \frac{\left[\omega_6 \cdot T^2 + 2 \cdot T + 2 \cdot \omega_6 \cdot \frac{T^2}{z} + \frac{\left(\omega_6 \cdot T^2 - 2 \cdot T\right)}{z^2}\right]}{\left[4 + \omega_7{}^2 \cdot T^2 + 4 \cdot \zeta_7 \cdot \omega_7 \cdot T + \frac{\left(-8 + 2 \cdot \omega_7{}^2 \cdot T^2\right)}{z} + \frac{\left(4 + \omega_7{}^2 \cdot T^2 - 4 \cdot \zeta_7 \cdot \omega_7 \cdot T\right)}{z^2}\right]} \cdot \frac{\omega_7{}^2}{\omega_6}$$

$$H_{Compl}(s) = \frac{\left[\omega_6 \cdot T^2 + 2 \cdot T + 2 \cdot \omega_6 \cdot \frac{T^2}{\exp(s \cdot T)} + \frac{\left(\omega_6 \cdot T^2 - 2 \cdot T\right)}{\exp(s \cdot T)^2}\right]}{\left[4 + \omega_7{}^2 \cdot T^2 + 4 \cdot \zeta_7 \cdot \omega_7 \cdot T + \frac{\left(-8 + 2 \cdot \omega_7{}^2 \cdot T^2\right)}{\exp(s \cdot T)} + \frac{\left(4 + \omega_7{}^2 \cdot T^2 - 4 \cdot \zeta_7 \cdot \omega_7 \cdot T\right)}{\exp(s \cdot T)^2}\right]} \cdot \frac{\omega_7{}^2}{\omega_6}$$

$$H_{slcl}(s) = \frac{ZOH(s) \cdot H_{delay}(s) \cdot H_{Compl}(s)}{\left|H_{Compl}(\omega_0)\right|}$$

Plot Data:

$r = \ln\left(\frac{max}{min}\right)$ $n = 400$ $k = 1..n$ $min = 100$

$f_k = min \cdot e^{k \cdot \frac{r}{n}}$ $deg \equiv \frac{\pi}{180}$ $max = 10 \cdot 10^4$

$Magn(s) = 20 \cdot \log\left(\left|H_{Triple}(s)\right|\right)$

$\phi(s) = angle\left(Re\left(H_{Triple}(s)\right), Im\left(H_{Triple}(s)\right)\right) - 360 \cdot deg$

$Magn_1(s) = 20 \cdot \log\left(\left|H_{Single}(s)\right|\right)$

$\phi_1(s) = angle\left(Re\left(H_{Single}(s)\right), Im\left(H_{Single}(s)\right)\right), \quad 360 \cdot deg$

$Magn_2(s) \quad 20 \cdot \log\left(H_{Complex}(s)\right)$

$\phi_2(s) \quad angle\left(Re\ H_{Complex}(s)\right), Im\ H_{Complex}(s) \quad 360 \cdot deg$

$$Magn_3(s) = 20\cdot\log\left(\left|H_{AnalogBox}(s)\right|\right)$$

$$\phi_3(s) = angle\left(Re\left(H_{AnalogBox}(s)\right), Im\left(H_{AnalogBox}(s)\right)\right) - 360\cdot deg$$

$$Magn_4(s) = 20\cdot\log\left(\left|H_{slcl}(s)\right|\right)$$

$$\phi_4(s) = angle\left(Re\left(H_{slcl}(s)\right), Im\left(H_{slcl}(s)\right)\right) - 360\cdot deg$$

Fig. 127 illustrates the magnitude response curves for focus compensation transfer functions as derived from the indicated equations. The graph of Fig. 127 shows the individual response curves for triple lead lag, single lead lag, complex lead lag, analog box, and single lead complex lag as identified by the keys in the legend box. Similarly, Fig. 128 shows the phase response curves for the focus compensation transfer functions as derived from the corresponding equations. The graph of Fig. 128 illustrates the individual phase response curves for triple lead lag, single lead lag, complex lead lag, analog box, and single lead complex lag as identified in the legend box.

Complex Lead/Lag:

$$H_{Compl}(z) = \left[\frac{4+\omega_2^2\cdot T^2+4\zeta_2\cdot\omega_2\cdot T}{\left(-8+2\omega_2^2\cdot T^2\right)} + 1\cdot z^{-1} + \frac{4+\omega_2^2 T^2-4\zeta_2\cdot\omega_2\cdot T}{\left(-8+2\cdot\omega_2^2\cdot T^2\right)} z^{-2}\right] \cdot \frac{\omega_3^2\cdot\left(-8-2\omega_2^2\cdot T^2\right)}{\omega_2^2\cdot\left(4+\omega_3^2 T^2+4\zeta_3\omega_3\cdot T\right)}$$

$$\left(1 + \frac{-8+2\cdot\omega_3^2\cdot T^2}{4-\omega_3^2 T^2+4\cdot\zeta_3\cdot\omega_3\cdot T}\cdot z^{-1} + \frac{4+\omega_3^2\cdot T^2-4\zeta_3\cdot\omega_3 T}{4+\omega_3^2\cdot T^2+4\zeta_3\cdot\omega_3 T} z^{-2}\right)$$

$$N_1 = \frac{4+\omega_2^2\cdot T^2-4\cdot\zeta_2\cdot\omega_2\cdot T}{\left(8-2\cdot\omega_2^2\cdot T^2\right)} \qquad N_1 = -0.554 \qquad N_2 = 1$$

$$N_3 \quad \frac{4-\omega_2^2\cdot T^2-4\cdot\zeta_2\cdot\omega_2\cdot T}{8-2\cdot\omega_2^2\cdot T^2} \qquad N_3 = 0.456$$

$$D_1 = 1$$

$$D_2 = \frac{-8 + 2\cdot\omega_3^2\cdot T^2}{\left(4 + \omega_3^2\cdot T^2 + 4\cdot\zeta_3\cdot\omega_3\cdot T\right)} \qquad D_2 = -0.916$$

$$D_3 = \frac{4 + \omega_3^2\cdot T^2 - 4\cdot\zeta_3\cdot\omega_3\cdot T}{\left(4 + \omega_3^2\cdot T^2 + 4\cdot\zeta_3\cdot\omega_3\cdot T\right)} \qquad D_3 = 0.068$$

Single Lead Complex Lag:

$$H_{Compl}(z) = \frac{\left[\left(\omega_6\cdot T^2 + 2\cdot T\right) + 2\cdot\omega_6\cdot T^2\cdot z^{-1} + \left(\omega_6\cdot T^2 - 2\cdot T\right)\cdot z^{-2}\right]}{\left[\left(4 + \omega_7^2\cdot T^2 + 4\cdot\zeta_7\cdot\omega_7\cdot T\right) + \left(-8 + 2\cdot\omega_7^2\cdot T^2\right)\cdot z^{-1} + \left(4 + \omega_7^2\cdot T^2 - 4\cdot\zeta_7\cdot\omega_7\cdot T\right)\cdot z^{-2}\right]}\cdot\frac{\omega_7^2}{\omega_6}$$

$$\omega_2\cdot T^2 + 2\cdot T = 4.276\cdot 10^{-5} \qquad 2\cdot\omega_2\cdot T^2 = 5.529\cdot 10^{-6}$$

$$N_1 = \frac{\omega_6\cdot T^2 + 2\cdot T}{\left(\omega_6\cdot T^2 + 2\cdot T\right)} \qquad N_1 = 1$$

$$N_2 = \frac{2\cdot\omega_6\cdot T^2}{\left(\omega_6\cdot T^2 + 2\cdot T\right)} \qquad N_2 = 0.107$$

$$N_3 = \frac{\omega_6\cdot T^2 - 2\cdot T}{\left(\omega_6\cdot T^2 \quad 2\cdot T\right)} \qquad N_3 = -0.893 \qquad |N_1| + |N_2| + |N_3| = 2$$

$$D_2 \qquad 8 \quad 2\cdot\omega_7^2\cdot T^2 \qquad D_2 = 0.356$$

$$4 \quad \omega_7^2\cdot T^2 \quad 4\cdot\zeta_7\,\omega_7\cdot T$$

$$D_3 := \frac{4 + \omega_7^2 \cdot T^2 - 4 \cdot \zeta_7 \cdot \omega_7 \cdot T}{4 + \omega_7^2 \cdot T^2 + 4 \cdot \zeta_7 \cdot \omega_7 \cdot T} \qquad D_3 = 0.136$$

To the extent not already disclosed, the following U.S. Patents are herein incorporated by reference: Grove et al., U.S. Pat. No. 5,155,633; Prikryl et al., U.S. Pat. No. 5,245,174; and Grassens, U.S. Pat. No. 5,177,640.

While this invention has been described in detail with reference to certain preferred embodiments, it should be appreciated that the present invention is not limited to these precise embodiments. Rather, in view of the present disclosure which describes the current best mode for practicing the invention, many modifications and variations would present themselves to those of skill in the art without departing from the scope and spirit of this invention. The scope of the invention is, therefore, indicated by the following claims rather than by the foregoing description. All changes, modifications, and variations coming within the meaning and range of equivalency of the claims are to be considered within their scope.

APPENDIX A

CODE_HI.HEX

```
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APPENDIX B

```
/*****************************************************************************/
/*  Program Name      : Drive.c                                                */
/*  Description       : 4x 5.25" DSP Servo controller main kernal              */
/*  Part Number       : 562096                                                 */
/*  Date              : 8/12/93                                                */
/*  O/S               : N/A                                                    */
/*  Compiler          : TI TMS320C2x/C5x Compiler,#TMDS3242855-02,Rel. 6.0     */
/*  Support Packages  : N/A                                                    */
/*  Author            : Dave Schell                                            */
/*  Required Files    : Drive.c,Interupt.asm,C50_init.asm,Seek.c,Drive.h       */
/*                    : Recal.c                                                */
/*  Hardware Required : Part # XXXXXX                                          */
/*  Install. Instr.   : Link in with Drive code                                */
/*  Operating Instr.  : N/A                                                    */
/*                                                                             */
/*  Rev History                                                                */
/*     Date     Rev  C#  Init     Change Description                          */
/*  4/14/94     XA   00   DLS   Initial Release                                */
/*****************************************************************************/

#include "drive.h"

main ()
{
/* Debug start */
    int i;
    for (i=0;i<50;i++) Debug_Ram[i] = 0;
/* Debug stop */

    init_regs();
    while(1)
    {
    if ((Cmd_Bits & CmdPending) != 0)   /* Command Ready ? */
       {
       ExecuteCmd();
       }
    if ((Cmd_Bits & Tach_Bit) != 0)   /* If a Rotation happened */
```

```
        {
        if (TachUpLimit != 0)
        {
           if (Tach_Time > TachUpLimit)
 5         {
           asm("     SETC    INTM");  /* Disable intr while changing image */
           Ctrl_Image |= DSP_Intr;    /* Set DSP Int. Interupt the 188 */
           Ctrl_Port = Ctrl_Image;    /* Write to the port */
           Stat_Buffer[0] |= SpindleError; /* Set the Spindle Error Bit */
10         asm("     CLRC    INTM");  /* Re enable interrupts */
           }
        }
        if (TachLowLimit != 0)
        {
15         if (Tach_Time < TachLowLimit)
           {
           asm("     SETC    INTM");  /* Disable intr while changing image */
           Ctrl_Image |= DSP_Intr;    /* Set DSP Int. Interupt the 188 */
           Ctrl_Port = Ctrl_Image;    /* Write to the port */
20         Stat_Buffer[0] |= SpindleError; /* Set the Spindle Error Bit */
           asm("     CLRC    INTM");  /* Re enable interrupts */
           }
        }
        if ((Stat_Buffer[0] & FineLoop) != 0)  /* If Fine Loop is closed */
25         {
           if ((Stat_Buffer[0] & Jumpback_Out) != 0) /* do jumpback? */
              {
              Do_Jumpback(Seek_Out);
              }
30         if ((Stat_Buffer[0] & Jumpback_In) != 0) /* do jumpback? */
              {
              Do_Jumpback(Seek_In);
              }
           }
35      }
      if ((Ctrl_Image & LaserEnable) == LaserEnable)  /* Regulate laser power */
        {
```

```
            if ((Cmd_Bits & SenseSample) != 0)   /* Fwd Sense Sample Available */
               {
               RegulateLaser(LS);
               }
         }
      }
   }

   /*************************************************************************/
   /*  ExecuteCmd decodes and executes interupt recieved commands, when   */
   /*  the command is completed, this routine returns and enables command */
   /*  interupts.                                                         */
   /*************************************************************************/
   void ExecuteCmd (void)
   {
      int temp;

           /* Assume the command is understood and has a good check sum */
      Stat_Buffer[0] |= CmdComplete;   /* Set Command Complete */
      Stat_Buffer[0] &= ~BadChkSum;    /* Clear the Bad Check Sum bit */
      Stat_Buffer[0] &= ~UnknownCmd;   /* Clear the Unknown Command bit */

      if (CheckSum() == 0x00ff)  /* Test 1's Complement Check Sum on Commands */
      {
         temp = (CMD_Buffer[0] >> 8) & 0x00ff;
         switch (temp)
         {
           case 0 : SendStatus();      /* Command 0 = Status only */
                    break;
           case 1 : InitDrive();       /* Command 1 = Initialize drive */
                    break;
           case 2   LaserOn();         /* Command 2 = Initialize the laser */
                    break;
           case 3   CaptureFocus();    /* Command 3 = Capture Focus */
                    break;
           case 4   CaptureFine();     /* Command 4 = Capture Fine Tracking */
                    break;
```

```
            case 5:  CaptureCoarse();  /* Command 5 = Close the Coarse Loop */
                     break;
            case 6:  ClosePinning();   /* Command 6 = Close the Pinning Loop */
                     break;
            case 7:  EnJumpbackIn();   /* Command 7 = Enable Jumpback In */
                     break;
            case 8:  EnJumpbackOut();  /* Command 8 = Enable Jumpback Out */
                     break;
            case 9:  DisJumpback();    /* Command 9 = Disable Jumpbacks */
                     break;
            case 0x0A: MultiTrackSeek(CMD_Buffer[1],Seek_In);
                     break;            /* Command A = Do a Seek toward spindle */
            case 0x0B: MultiTrackSeek(CMD_Buffer[1],Seek_Out);
                     break;            /* Command B = Do Seek away from spindle */
            case 0x0C: OpenLoops();    /* Command C = Open various loops */
                     break;
            case 0x0D: ClearDSPIntr(); /* Command D = Clear DSP to 188 Interrupt */
                     break;
            case 0x0E: VelTabStart (); /* Command E = Read start of Vel Table */
                     break;
            case 0x0F: ReadTimeTick(); /* Command F = Read 32 bit 20us Clock */
                     break;
            case 0x10: SetTachLimit(); /* Command 10h = Set Tach Pulse Limits */
                     break;
            case 0x80: ReadCodeRev();  /* Command 80h = Read DSP Code Rev */
                     break;
            case 0x81: ReadMemory();   /* Command 81h = Read DSP Ram Memory */
                     break;
            case 0x82: WriteMemory();  /* Command 82h = Write DSP Ram Memory */
                     break;
            default: BadCommand();     /* A bad command was sent*/
                     break;
          }
        }
        else BadCheckSum()
        asm("     SETC   INTM");       /* disable interupts */
        Cmd_Bits &= ~CmdPending;       /* Clear the Command Pending Bit */
```

```
    Cmd_Buff_Point = &Stat_Buffer[0];  /* Point to start of the status */
    Cmd_Bits |= 0x0004;                /* Set for the MSByte of the status */
    asm("     CLRC   INTM");           /* enable interupts */
    asm("     lamm   IMR");            /* Get the Interupt Mask Register */
    asm("     or     #0100h");         /* Set enable interupt 4 bit, bit 9 */
    asm("     samm   IMR");            /* Enable interupt 4 */
    asm("     intr   9");              /* do an interupt 4 */
}

void SendStatus (void)                 /* Command 0 = Status only */
{                                /* Do Nothing, Set up else where, just return */
}
void InitDrive (void)                  /* Command 1 = Init laser and servos */
{
    if ((Cmd_Buff_Point - &CMD_Buffer[0]) != 2)
    {
        BadCommand();
    }
    else
    {
        LaserOn();                 /* Turn the laser on */
        ClosePinning();            /* Close the pinning loop, enable Fine PA */
        Retract();                 /* Move the carriage to inner crash stop */
        CaptureFocus();            /* Capture Focus */
        CaptureCoarse();           /* Capture Coarse Tracking */
        Stat_Buffer[0] &= ~PinningLoop; /* open the Pinning loop */
        MultiTrackSeek(3000,Seek_Out);  /* Seek out to the disk */
        Delay(100);
        MultiTrackSeek(200,Seek_Out);  /* Seek out to the disk */
        FocusOffset();             /* Find Optimum Focus for RPP */
        TrackOffset();             /* Find RPP Center value */
    }
}
void LaserOn (void)                    /* Command 2 = laser on and calibrate */
{
    int TimeOut,
```

```
if ((Cmd_Buff_Point - &CMD_Buffer[0]) != 2)
{
    BadCommand();
}
else
{
    Stat_Buffer[0] &= LoopsOpen;  /* Clear Laser, Fine,Crs,Focus,Pin */
    Read_Sense = CMD_Buffer[1];   /* Save desired read sense value */
    Write_Sense = CMD_Buffer[2];  /* Save desired write sense value */
    ReadMSImage = 0;        /* Zero all the initial values */
    ReadMS_DAC = ReadMSImage;
    ReadLSImage = 0x4000;   /* Center range, 15 bits, initial value */
    ReadLS_DAC = (ReadLSImage << 1);  /* write out the value */
    WriteDacImage = 0;
    Write_DAC = WriteDacImage;
    asm("     SETC    INTM");  /* Disable intr while changing image */
    Ctrl_Image &= 0x0003;      /* Open loops, Laser off, leave DSP Int */
    Ctrl_Port = Ctrl_Image;    /* Write to the port */
    asm("     CLRC    INTM");  /* Re enable interrupts */
    Delay(100);    /* Delay 100 * 20 us (2000 us), let laser turn off */
    FwdSen_Zero = Int_FwdSen;  /* Save the laser off value */
    QSum_Zero = Int_QSum;      /* Save the laser off value */
    Fine_Zero = Int_Fine;      /* Save the laser off value */
    Focus_Zero = Int_Focus;    /* Save the laser off value */
    Crs_Zero = Int_Crs;        /* Save the laser off value */
    Stat_Buffer[0] &= ~LaserError;  /* Clr Laser Read Power Error */
    Stat_Buffer[0] |= LaserEnabled;  /* Laser Read Power is Not okay */
    asm("     SETC    INTM");  /* Disable intr while changing image */
    Ctrl_Image |= LaserEnable;   /* Set the laser read on bit */
    Ctrl_Port = Ctrl_Image; /* Turn on the laser */
    asm("     CLRC    INTM"); /* Re enable interrupts */
    TimeOut = 0;
    while(TimeOut < 2000)           /* Regulate the laser for 40ms */
      if ((Cmd_Bits & SenseSample) != 0) /* Fwd Sense Sample Available */
      {
      RegulateLaser(MS);
      TimeOut++;
```

```
            }
        }
    }
    /*************************************************************************/
    /*   Capture Focus                                                       */
    /*************************************************************************/
    void CaptureFocus(void)          /* Command 3 = Capture Focus and Close Loop */
    {
       int MaxQuadSum;
       int Counter;
       int TimeOut;

       Stat_Buffer[0] &= ~FocusLoop;     /* open the focus loop */
       MaxQuadSum = QSum_Zero;           /* Initialize the Quad Sum Value */
       FocMS_Image = 0;                  /* Set to zero value, signed integer */
       Foc_MS_DAC =  ZeroOffset;         /* Write zero value to the DAC */
       FocLS_Image = FocusStart;         /* Set Focus Current DAC to sweep start */
       Foc_LS_DAC = FocLS_Image + ZeroOffset;  /* Write DAC with zero offset */
       asm("     SETC    INTM");  /* Disable intr while changing image */
       Ctrl_Image |= FocusEnable;        /* Set the Focus PA Enable bit on */
       Ctrl_Port = Ctrl_Image;           /* Write out the port value */
       asm("     CLRC    INTM"); /* Re enable interrupts */
       Delay(150);                       /* Delay 3 ms (20 * 150us) */
                    /* Find the Max Quad Sum Point */
       while (FocLS_Image > FocusStop)
       {
         Delay(5);                       /* Wait 100 us */
         if (Int_QSum > MaxQuadSum)      /* Get the max quad sum */
         {
            MaxQuadSum = Int_QSum;
         }
         Foc_LS_DAC = FocLS_Image + ZeroOffset.  /* Write DAC with zero offset */
         FocLS_Image -= 256.
       }
         /* Get the Quad Sum Threshold Level, 1/2 of Max Quad Sum */
       MaxQuadSum = ((MaxQuadSum - QSum_Zero) >> 1) + QSum_Zero.
         /* Find the Focus Point and close the loop */
```

```
while ((FocLS_Image < FocusStart) &
                        ((Stat_Buffer[0] & FocusLoop) != FocusLoop))
{
  for(Counter = 0; Counter < 32 ; ++Counter)          /* wait n times */
  {
    Delay(1);
        /* when quad sum okay and Focus negative */
    if ((Int_QSum > MaxQuadSum) & ((Int_Focus - Focus_Zero) > 0))
    {
       Stat_Buffer[0] |= FocusLoop; /* close the focus loop */
    }
  }
  Foc_LS_DAC = FocLS_Image + ZeroOffset;  /* Write DAC with zero offset */
  FocLS_Image += 256;
}
if ((Stat_Buffer[0] & FocusLoop) == FocusLoop)  /* If focus is closed */
{
     TimeOut = 0;
     while(TimeOut < 500)            /* Regulate the laser for 10ms */
     {
       if ((Cmd_Bits & SenseSample) != 0) /* Fwd Sense Sample Available */
       {
         RegulateLaser(MS);
         if (ReadLSImage < 0x4000) /* Center range, 15 bits, initial value */
         {
           ReadLSImage = ReadLSImage + 128;  /* Increment lsb of DAC */
           ReadLS_DAC = (ReadLSImage << 1);  /* write out the value */
         }
         else
         {
           ReadLSImage = ReadLSImage - 128;  /* Decrement lsb of DAC */
           ReadLS_DAC = (ReadLSImage << 1),  /* write out the value */
         }
         TimeOut++;
       }
     }
}
```

```
}
/*****************************************************************************/
/*   Capture Fine Tracking                                                   */
/*****************************************************************************/
void CaptureFine(void)          /* Command 4 = Close the tracking Loop */
{
   int Counter;

   while ((Counter < 2000) & ((Stat_Buffer[0] & FineLoop) != FineLoop))
   {
     Delay(1);
     Counter++;
         /* when Fine Error is close to zero */
     if (abs(Int_Fine - Fine_Zero) < 0x1000)
     {
        Stat_Buffer[0] |= FineLoop;    /* close the fine loop around zero */
     }
   }
   if (Counter < 2000)
   {
     asm("     SETC    INTM");  /* Disable intr while changing image */
     Ctrl_Image |= FineEnable;  /* Set the Fine PA Enable bit on */
     Ctrl_Port = Ctrl_Image;    /* Write out the port value */
     asm("     CLRC    INTM"); /* Re enable interrupts */
     Stat_Buffer[0] |= FineLoop;   /* close the fine loop */
   }
}
/*****************************************************************************/
/*   Capture Coarse Tracking                                                 */
/*****************************************************************************/
void CaptureCoarse(void)        /* Command 5 = Capture Coarse Tracking */
{
     Delay(50).                 /* Let the fine loop settle 1 ms */
     asm("     SETC    INTM");  /* Disable intr while changing image */
     Ctrl_Image |= CrsEnable.   /* Set the Coarse PA Enable bit on */
     Ctrl_Port = Ctrl_Image;    /* Write out the port value */
     asm("     CLRC    INTM").  /* Re enable interrupts */
```

```
    Stat_Buffer[0] |= CoarseLoop; /* close the Coarse loop */
}
/*************************************************************************/
/*   Close the Pinning Loop                                              */
/*************************************************************************/
void ClosePinning(void)          /* Command 6 = Close the Pinning Loop */
{
    asm("     SETC    INTM");   /* Disable intr while changing image */
    Ctrl_Image |= FineEnable;   /* Set the Fine PA Enable bit on */
    Ctrl_Port = Ctrl_Image;     /* Write out the port value */
    asm("     CLRC    INTM");   /* Re enable interrupts */
    Stat_Buffer[0] |= PinningLoop; /* close the Pinning loop */
}
void EnJumpbackIn(void)   /* Command 7 = Enable Jumpback In */
{
   Stat_Buffer[0] |= Jumpback_In;    /* Enable Jumpback Toward the Spindle */
}
void EnJumpbackOut (void)  /* Command 8 = Enable Jumpback Out */
{
    Stat_Buffer[0] |= Jumpback_Out;    /* Enable Jumpback Away from Spindle */
}
void DisJumpback(void)    /* Command 9 = Disable Jumpbacks */
{
    Stat_Buffer[0] &= ~Jumpback_In;     /* Disable Jumpback Toward Spindle */
    Stat_Buffer[0] &= ~Jumpback_Out;    /* Disable Jumpback Away from Spindle */
}
       /* Execute the Open Loops command from the 188 */
/*************************************************************************/
/*       Execute the Open Loops command from the 188                     */
/*************************************************************************/
void OpenLoops(void)              /* Command C = Open Loops */
{
    asm("     SETC    INTM");  /* Disable intr while changing image */
    if(CMD_Buffer[1] & 0x0100)     /* If true disable the laser */
      {
      Ctrl_Image &= ~LaserEnable. /* Clr Laser Bits of control port image */
      Stat_Buffer[0] &= ~LaserError.  /* Clr Laser Power Error Bit */
```

```
        Stat_Buffer[0] &= ~LaserEnabled; /* Laser Read Power is Not okay */
        }
      if(CMD_Buffer[1] & 0x0200)     /* If true disable the focus loop */
        {
        Ctrl_Image &= ~FocusEnable; /* Clr Focus Bit of control port image */
        Stat_Buffer[0] &= ~FocusError; /* Clr Focus Loop Error bit */
        Stat_Buffer[0] &= ~FocusLoop;  /* Open the Focus Loop */
        }
      if(CMD_Buffer[1] & 0x0400)     /* If true disable the Coarse loop */
        {
        Ctrl_Image &= ~CrsEnable;   /* Clr Coarse Bit of control port image */
        Stat_Buffer[0] &= ~CoarseLoop; /* Open the Coarse Loop */
        }
      if(CMD_Buffer[1] & 0x0800)     /* If true disable the Fine loop */
        {
        Ctrl_Image &= ~FineEnable;  /* Clr Fine Bit of control port image */
        Stat_Buffer[0] &= ~TrackingError;  /* Clr Tracking Loop Error Bit */
        Stat_Buffer[0] &= ~FineLoop;   /* Open the Fine Loop */
        }
      if(CMD_Buffer[1] & 0x1000)     /* If true disable the Pinning loop */
        {
        Ctrl_Image &= ~FineEnable;   /* Clr Fine Bit of control port image */
        Stat_Buffer[0] &= ~PinningLoop; /* Open the Fine Loop */
        }
      if(CMD_Buffer[1] & 0x2000)     /* If true clear the spindle error bit */
        {
        Stat_Buffer[0] &= ~SpindleError; /* Clear the spindle error bit */
        }
      Ctrl_Port = Ctrl_Image;        /* Clear the actual bits */
      asm("     CLRC    INTM");     /* Re enable interrupts */
    }
        /* Execute the Clear DSP Interrupt command from the 188 */
    void ClearDSPIntr(void)            /* Command D = Clear DSP to 188 Interrupt */
    {
      asm("     SETC    INTM"), /* Disable interrupts while changing image */
      Ctrl_Image &= ~DSP_Intr,  /* Clear the LSBit of the control port image */
      Ctrl_Port = Ctrl_Image;   /* Clear the actual bit */
```

```
    asm("     CLRC    INTM"); /* Re enable interrupts */
}
        /* Execute the Velocity Table Start Address */
void VelTabStart(void)   /* Command 0Eh = Read Velocity Table Start Address */
{
    Stat_Buffer[1] = ((int) &Vel_Table); /* Store Vel Table Start Addr */
    Stat_Buffer[2] = ((int) &InverseTime); /* Store Inverse Time Start Addr */
}
        /* Execute the Read Time Tick Counter */
void ReadTimeTick()        /* Command 0Fh = Read Time Tick Counter */
{
    asm("     SETC    INTM");  /* Disable intr while storing the values */
    Stat_Buffer[1] = Count_20_MSW; /* Store Time Tick MSWord */
    Stat_Buffer[2] = Count_20_LSW; /* Store Time Tick LSWord */
    asm("     CLRC    INTM"); /* Re enable interrupts */
}
        /* Execute the Set Tach time limits */
void SetTachLimit(void)      /* Command 10h = Set the tach pulse limits */
{
    TachUpLimit = CMD_Buffer[1];   /* Save the upper limit value */
    TachLowLimit = CMD_Buffer[2];  /* Save the lower limit value */
}
        /* Execute the Code Revision Read command from the 188 */
void ReadCodeRev(void)       /* Command 80h = Read the DSP Code Rev Level */
{
    static char Rev[5]={ Revision };  /* Rev level reported by ReadCodeRev */

    Stat_Buffer[1] = ((int) Rev[0] << 8);  /* Get the Character, SHL 8 */
    Stat_Buffer[1] |= (int) Rev[1];      /* Get 2nd Character in buffer */
    Stat_Buffer[2] = ((int) Rev[2] << 8);  /* Get the 3rd Character, SHL 8 */
    Stat_Buffer[2] |= (int) Rev[3];      /* Get 4th Character in buffer */
}
        /* Execute the Memory read command from the 188 */
void ReadMemory(void)         /* Command 81h = Read DSP Ram Memory */
{
    int *Temp_P1,*Temp_P2,Temp,
```

```
        Temp_P1 = &CMD_Buffer[0];           /* Point to 1st Cmd Byte */
        ++Temp_P1;                          /* Point to Address Value */
        Temp_P2 = (int *) *Temp_P1;         /* Load Address into Temp_P2 */
        Temp_P1 = &Stat_Buffer[0];          /* Point to the Status Buffer */
        ++Temp_P1;                          /* Point to the 1st data word */
        while (Temp_P1 < &CMD_Buffer[0])    /* Move all the words */
        {
           *Temp_P1 = *Temp_P2;             /* Store a word of data */
           ++Temp_P1;                       /* Point to next data word */
           ++Temp_P2;                       /* Point to next storage location */
        }
    }
          /* Execute the Memory write command from the 188 */
    void WriteMemory(void)       /* Command 81h = Write DSP Ram Memory */
    {
        int *Temp_P1,*Temp_P2,Temp;

        Temp_P1 = &CMD_Buffer[0];           /* Point to 1st Cmd Byte */
        ++Temp_P1;                          /* Point to Address Value */
        Temp_P2 = (int *) *Temp_P1;         /* Load Address into Temp_P2 */
        ++Temp_P1;                          /* Point to 1st data word */
        while (Temp_P1 <= Cmd_Buff_Point)   /* Move all the words */
        {
           *Temp_P2 = *Temp_P1;             /* Store a word of data */
           ++Temp_P1;                       /* Point to next data word */
           ++Temp_P2;                       /* Point to next storage location */
        }
    }
          /* Set up the status buffer saying the command was not understood */
    void BadCommand(void)       /*Command ? = an undefined command */
    {
        Stat_Buffer[0] &= ~CmdComplete;   /* Clear Command Complete */
        Stat_Buffer[0] |= UnknownCmd.     /* Set Unknown Command bit */
    }
          /* Set up the status buffer saying the checksum was bad */
    void BadCheckSum(void)
    {
```

```
    Stat_Buffer[0] &= ~CmdComplete;    /* Clear Command Complete */
    Stat_Buffer[0] |= BadChkSum;       /* Set Bad Check Sum bit */
}

    /* Calculate the checksum on the command buffer */
int CheckSum(void)
{
    int *Temp_Point,sum;

    sum = 0;                                /* Initialize the Sum Value */
    Temp_Point = &CMD_Buffer[0];            /* Point to 1st Cmd Byte */
    while (Temp_Point <= Cmd_Buff_Point)    /* Do Summation for all bytes */
    {
       sum += *Temp_Point + (*Temp_Point >> 8);  /* Sum both bytes of word */
       ++Temp_Point;                        /* Point to next command word */
    }
    sum &= 0x00FF;                          /* Clear MSByte */
    return(sum);                            /* Return with Sum Value */
}
/*************************************************/
/*    Delay so many 20us time ticks then return   */
/*************************************************/
void Delay(int ticks)
{
    int Stop_Time;

    Stop_Time = Count_20_LSW + ticks; /* Calculate the stop time */
    while (Stop_Time != Count_20_LSW) /* Repeat until counter equals stop */
    {
    }
}
/*****************************************************************************/
/*     Regulate the laser read power                                         */
/*****************************************************************************/
void RegulateLaser(int MS_LS)
{     /* Integrate around Read_Sense, Desired - Unsign ADC Value */
  int ReadPCLError;
```

```
        /* Int_FwdSen is a 10 bit unsigned (positive) number */
      ReadPCLError = ((Int_FwdSen - FwdSen_Zero) - Read_Sense);
      if (MS_LS == LS)
        {
 5      ReadLSImage = (ReadLSImage - ReadPCLError);
        if (ReadLSImage < 0)  /* Over or Under Flow */
          {
          if (ReadPCLError > 0)   /* UNDER FLOW */
             {
10           ReadLSImage = 0;
             }
          else
             {
             ReadLSImage = 0x7FFF;
15           }
          RegulateLaser(MS);   /* Regulate with the Large bit step */
          }
        ReadLS_DAC = (ReadLSImage << 1);
        }
20    else
        {
        ReadMSImage = (ReadMSImage - ReadPCLError);
        if (ReadMSImage < 0)
          {
25        if (ReadPCLError > 0)   /* UNDER FLOW */
             {
             ReadMSImage = 0;
             }
          else
30           {
             ReadMSImage = 0x7FFF;
             }
          }
        ReadMS_DAC = (ReadMSImage << 1);
35      }
      if (abs(ReadPCLError) < ReadPowerTol)
        {
```

```
        Stat_Buffer[0] &= ~LaserError;  /* Laser Read Power is Okay */
        }
        else
        {
    5   Stat_Buffer[0] |= LaserError;   /* Laser Read Power is Not okay */
        }
      asm("     SETC   INTM");     /* Disable interupts */
      Cmd_Bits &= ~SenseSample;    /* Clear the Sense Available Bit */
      asm("     CLRC   INTM");     /* enable interupts */
   10 }
      /*****************************************************************************/
      /*   Program Name      : Drive.h                                             */
      /*   Description       : 4x 5.25" DSP Servo controller header file           */
      /*   Part Number       : 562096                                              */
   15 /*   Date              : 8/12/93                                             */
      /*   O/S               : N/A                                                 */
      /*   Compiler          : TI TMS320C2x/C5x Compiler,#TMDS3242855-02,Rel. 6.0 */
      /*   Support Packages  : N/A                                                 */
      /*   Author            : Dave Schell                                         */
   20 /*   Required Files    : Drive.c,Interupt.asm,C50_init.asm,Seek.c,Drive.h    */
      /*                     : Recal.c                                             */
      /*   Hardware Required : Part # XXXXXX                                       */
      /*   Install. Instr.   : Link in with Drive code                             */
      /*   Operating Instr.  : N/A                                                 */
   25 /*                                                                           */
      /*   Rev History                                                           */
      /*     Date      Rev  C#  Init     Change Description                      */
      /*   4/14/94     XA   00   DLS   Initial Release                           */
      /*****************************************************************************/
   30

      enum Seek_Dir {Seek_Out,Seek_In};  /* direction const Jumpback and seek */
      enum Laser_Reg {LS,MS};            /* LS,MS Test for laser regulation */

   35 #define Revision "XA00"            /* The current Revision Level */

      #define Retr_Accel 6345           /* (2.0 Gs / 0.0003152 Gs/bit) */
```

```
#define Retr_Pulses 100          /* Number of Retract Pulses */

#define Foc_Step 655             /* Focus Step Size for Auto Focus */

#define JB_Accel 9835            /* (3.1 Gs / 0.0003152 Gs/bit) */
#define JB_Decel -13959          /* (4.4 Gs / 0.0003152 Gs/bit) */
#define Seek_Accel 18718         /* (5.9 Gs / 0.0003152 Gs/bit) */
#define Seek_Decel -13959        /* (4.4 Gs / 0.0003152 Gs/bit) */
#define Hi_BW_Tracks 10          /* Seek length for using high Bandwidth */
#define HiSeekGain 149           /* 149, Wide BW (750 Hz) Gain constant */
#define LowSeekGain 99           /* 99, Low BW (500 Hz) Gain constant */

#define CmdComplete 0x8000       /* Status Word Command Complete Bit */
#define BadChkSum 0x4000         /* Status Word Bad Check Sum Bit */
#define UnknownCmd 0x2000        /* Status Word Unknown Command Bit */
#define TrackingError 0x1000     /* Status Word Tracking Error Bit */
#define SpareBit 0x0800          /* Status Word Spare Bit */
#define FocusError 0x0400        /* Status Word Focus Error Bit */
#define LaserError 0x0200        /* Status Word Laser Control Error Bit */
#define FocusLoop 0x0100         /* Status Word Focus Loop Closed Bit */
#define FineLoop 0x0080          /* Status Word Fine Loop Closed Bit */
#define CoarseLoop 0x0040        /* Status Word Coarse Loop Closed Bit */
#define PinningLoop 0x0020       /* Status Word Pinning Loop Closed Bit */
#define SpindleError 0x0010      /* Status Word Tach Out of Spec Bit */
#define LaserEnabled 0x0008      /* Status Word Laser Read Power is on */
#define Jumpback_In 0x0004       /* Status Word Jumping Back In Bit */
#define Jumpback_Out 0x0002      /* Status Word Jumping Back Out Bit */
#define Bad_Seek 0x0001          /* Status Word Bad Seek/no Vel Table Bit */
#define LoopsOpen 0xE00F         /* Clear Tach, Focus, Coarse, Fine, Pin */

#define SenseSample 0x0080       /* Sense Sample Available Bit */
#define CmdPending 0x0001        /* Command Bits, Command pending Bit */
#define Tach_Bit 0x0200          /* Command Bits, Motor Tach Bit */

#define ReadPowerTol 0x0005      /* Read Power Okay Tolerance */
#define FocusEnable  0x0080      /* Control Port Focus PA Enable Bit */
```

```
#define FineEnable    0x0040        /* Control Port Fine PA Enable Bit */
#define CrsEnable     0x0020        /* Control Port Fine PA Enable Bit */
#define DTCS_Clk_Pol  0x0010        /* Track Crossing Clock Polarity */
#define LaserEnable   0x0008        /* Control Port Laser Enable Bit */
#define Software_TP   0x0002        /* Control Port Software Test Point Bit */
#define DSP_Intr      0x0001        /* Control Port DSP to 188 interrupt Bit */

#define FocusStart  32000           /* Focus Capture Sweep Current Minimum */
#define FocusStop  -32000           /* Focus Capture Sweep Current Maximum */
#define ZeroOffset 0x8000           /* Zero Offset value for the DACs */
#define MaxPositive 0x7FFF          /* Max positive signed integer value */
#define MaxNegative 0x8000          /* Max negative signed integer value */

extern int Read_Sense;      /* Laser Read Sense Desired Level */
extern int Write_Sense;     /* Laser Write Sense Desired Level */
extern int ReadMSImage;     /* Laser Read DAC Bit Image */
extern int ReadLSImage;     /* Laser Read DAC Bit Image */
extern int WriteDacImage;   /* Laser Write DAC 16 Bit Image */
extern int MaxRPP;          /* Maximum RPP Value seen during a jumpback */
extern int MinRPP;          /* Minimum RPP Value seen during a jumpback */


extern int FwdSen_Zero;     /* ADC Forward Sense Value with the laser off */
extern int QSum_Zero;       /* ADC Quad Sum Value with the laser off */
extern int Fine_Zero;       /* ADC Tracking Value with the laser off */
extern int Focus_Zero;      /* ADC Focus Value with the laser off */
extern int Crs_Zero;        /* ADC Coarse Error Zero */
extern int FineDacZero;     /* Fine DAC Zero or Seek Accel Value */
extern int CrsDacZero;      /* Crs DAC Zero or Seek Accel Value */
extern int FocLS_Image;     /* Focus Current LS (Capture) DAC 16 Bit Image */
extern int FocMS_Image;     /* Focus Current MS (Servo) DAC 16 Bit Image */
extern int FineDacImage;    /* Fine Current (Servo) DAC 16 Bit Image */
extern int Cmd_Bits;        /* Command ready Status Flag */
extern int *Cmd_Buff_Point; /* Command Buffer Pointer */
extern int Stat_Buffer[5];  /* The first word of the status buffer */
extern int CMD_Buffer[10];  /* The first word of the command buffer */
extern int SPC;             /* The Serial Control Input Port */
```

```
extern int Track_Cnt;       /* The Track Crossing Counter Input Port */
extern int Ctrl_Port;       /* The Output Control Port */
extern int Ctrl_Image;      /* The memory image of the Control Port */
extern int Foc_LS_DAC;      /* Focus DAC Memory Location */
extern int Foc_MS_DAC;      /* Focus DAC Memory Location */
extern int Foc_Err_Cnt;     /* Focus Out of limit sample counter */
extern int Focus_Limit;     /* Focus Error Spec Limit Value */
extern int Fine_DAC;        /* Fine DAC Memory Location */
extern int Fine_Err_Cnt;    /* Focus Out of limit sample counter */
extern int Fine_Limit;      /* Focus Error Spec Limit Value */
extern int Crs_DAC;         /* Coarse DAC Memory Location */
extern int Write_DAC;       /* Write DAC Memory Location */
extern int ReadLS_DAC;      /* Read DAC Memory Location */
extern int ReadMS_DAC;      /* Read DAC Memory Location */
extern int Spare_DAC;       /* Spindle or Test DAC Memory Location */
extern int Int_Focus;       /* Focus Interupt Value */
extern int Int_Fine;        /* Fine Interupt Value */
extern int Int_Crs;         /* Coarse Interupt Value */
extern int Int_FwdSen;      /* Forward Sense Interupt Value */
extern int Int_QSum;        /* Quad Sum Interupt Value */
extern int Int_Test;        /* Test Interupt Value */
extern int Count_20_MSW;    /* 20us Time tick counter, upper 16 bit value */
extern int Count_20_LSW;    /* 20us Time tick counter, lower 16 bit value */
extern int TachUpLimit;     /* Tach Pulse upper time limit */
extern int TachLowLimit;    /* Tach Pulse lower time limit */
extern int Tach_Time;       /* Tach Pulse Recurrence Interval time  */
extern int Vel_Table[384];  /* Seek Velocity Table Starting Address */
extern int InverseTime[25]; /* Inverse Time Table for seek velocity calcs */
extern int Debug_Ram[50];   /* Inverse Time Table for seek velocity calcs */

void init_regs(void);       /* Initialize the DSP registars */
void ExecuteCmd(void);
void SendStatus(void);
void InitDrive(void);
void LaserOn(void);
void CaptureFocus(void);
void CaptureFine(void);
```

```
void CaptureCoarse(void);
void ClosePinning(void);
void EnJumpbackIn(void);
void EnJumpbackOut(void);
void DisJumpback(void);
void OpenLoops(void);
void ClearDSPIntr(void);
void VelTabStart(void);
void ReadTimeTick(void);
void SetTachLimit(void);
void ReadCodeRev(void);
void ReadMemory(void);
void WriteMemory(void);
void BadCommand(void);
void BadCheckSum(void);
int CheckSum(void);
void Delay(int ticks);
void RegulateLaser(int);
void Do_Jumpback(int);
void Track_Capture(int,int);
void MultiTrackSeek(int,int);
void Retract(void);          /* Move the carriage to inner crash stop */
void FocusOffset(void);      /* Find the Zero Offsets for Max RPP */
void TrackOffset(void);      /* Find Zero Offset at (Max Rpp + Min RPP)/2 */
int FindPeaktoPeak(void);    /* Find the peak to peak RPP Value */
/*****************************************************************************/
/*   Program Name      : Seek.c                                              */
/*   Description       : 4x 5.25" DSP Servo controller seek routines         */
/*   Part Number       : 562096                                              */
/*   Date              : 12/12/93                                            */
/*   O/S               : N/A                                                 */
/*   Compiler          : TI TMS320C2x/C5x Compiler,#TMDS3242855-02,Rel. 6.0 */
/*   Support Packages  : N/A                                                 */
/*   Author            : Dave Schell                                         */
/*   Required Files      Drive.c,Interupt.asm,C50_init.asm,Seek.c,Drive.h    */
/*                       Recal.c                                             */
/*   Hardware Required   Part # XXXXXX                                       */
```

```
/*   Install. Instr.   : Link in with Drive code                          */
/*   Operating Instr.  : N/A                                              */
/*                                                                        */
/*   Rev History                                                          */
/*     Date     Rev  C#  Init     Change Description                      */
/*   04/14/94   XA   00   DLS   Initial Release                           */
/************************************************************************/

#include "drive.h"

/************************************************************************/
/*   Multi Track Seek in or out                                         */
/************************************************************************/
void MultiTrackSeek(Tracks,In_Out)
int Tracks,In_Out;
{
  int Accel,Decel,Sign,i,DeltaTime,OldTime,NewTime;
  int MeasuredVel,DesiredVel,TrackCount,Old_Trk_Cnt,New_Trk_Cnt,DeltaTracks;
  int LoopError,LoopGain,VelError,MaxVelError,OldCrsDacZero;
  int OldHalfTrack,HalfTrack;

  TrackCount = Tracks;                  /* Get the number of track to seek */
       /* Setup the direction dependent parameters */
  if (In_Out == Seek_In)
  {
     Sign = 1;
     asm("     SETC    INTM");   /* Disable intr while changing image */
/* debug */
     Ctrl_Port = Ctrl_Image |= Software_TP;    /* Write to the port */
     Ctrl_Port = Ctrl_Image &= ~Software_TP;    /* Write to the port */
/* debug */
     Ctrl_Image |= DTCS_Clk_Pol; /* Set the DTCS Clock Polarity Bit */
     Ctrl_Port = Ctrl_Image;    /* Write to the port */
     asm("     CLRC    INTM");  /* Re enable interrupts */
  }
  else
  {
```

```
        Sign = -1;
        asm("     SETC    INTM");    /* Disable intr while changing image */
    /* debug */
        Ctrl_Port = Ctrl_Image |= Software_TP;    /* Write to the port */
        Ctrl_Port = Ctrl_Image &= ~Software_TP;    /* Write to the port */
    /* debug */
        Ctrl_Image &= ~DTCS_Clk_Pol; /* Clear the DTCS Clock Polarity Bit */
        Ctrl_Port = Ctrl_Image;      /* Write to the port */
        asm("     CLRC    INTM");    /* Re enable interrupts */
    }
    Decel = Seek_Decel * Sign;


            /* If velocity table initilaized and focus is closed */
    if ((Vel_Table[0] != -1) && (Stat_Buffer[0] & FocusLoop) && (TrackCount > 0)
        && (InverseTime[0] != -1))
    {                                    /* then do the seek */
      Stat_Buffer[0] &= ~Bad_Seek;       /* Clear the bad seek status bit */
      if (TrackCount < 5)
      {
        for (i = 0; i < TrackCount; i++) Do_Jumpback(In_Out);
      }
      else
      {
        if (TrackCount > Hi_BW_Tracks)
        {
          Accel = MaxPositive * Sign;
          LoopGain = HiSeekGain * Sign;   /* Set the Seek Gain for High BW */
        }
        else
        {
          Accel = Seek_Accel * Sign;
          LoopGain = LowSeekGain * Sign;  /* Set the Seek Gain for low BW */
        }
        MaxVelError = abs(MaxPositive / LoopGain);
        OldTime = Count_20_LSW;   /* Get the start time */
        MeasuredVel = 0;          /* Starting Velocity = 0 */
```

```
Stat_Buffer[0] &= ~FineLoop; /* open the fine loop */
FineDacImage = Accel;      /* Update the Image Value */
Fine_DAC = (Accel + ZeroOffset); /* write out the acceleration value */
OldCrsDacZero = CrsDacZero;
CrsDacZero = Accel;        /* Output the coarse loop accel value */
Delay(5);                  /* Wait 100 us for RPP to go away from zero */
New_Trk_Cnt = (Track_Cnt & 0x00FF); /* Get the track counter value */
Old_Trk_Cnt = New_Trk_Cnt; /* Set them equal before starting loop */
if ((Old_Trk_Cnt & 0x0080) == 0) HalfTrack = 1; else HalfTrack = 0;
OldHalfTrack = HalfTrack;  /* Set them equal before starting loop */
while (TrackCount > 1)
{
   if (MeasuredVel < MaxPositive )  /* Velocity > 80.0 mm/s */
   {
     i = 0;
     while ((i < 6000) & (New_Trk_Cnt==Old_Trk_Cnt))
     {
       i++;
       New_Trk_Cnt = (Track_Cnt & 0x00FF); /* Get track count value */
     }
   }
   else
   {
     Delay(1);  /* at high velocity delay 1 time tick */
   }
   New_Trk_Cnt = (Track_Cnt & 0x00FF); /* Get track count value */
   NewTime = Count_20_LSW;       /* Get the current time */
   if ((New_Trk_Cnt & 0x0080) == 0) HalfTrack = 1; else HalfTrack = 0;
   DeltaTracks = (New_Trk_Cnt - Old_Trk_Cnt) & 0x007F;  /* Get Delta */
   Old_Trk_Cnt = New_Trk_Cnt;    /* Save the Track Count Value */
   TrackCount -= DeltaTracks;    /* Update the track counter */
               /* Calculate the number of half tracks */
   DeltaTracks = (DeltaTracks * 2) + HalfTrack - OldHalfTrack.
   OldHalfTrack = HalfTrack.
   DeltaTime = (NewTime - OldTime) - 1.
   OldTime = NewTime.            /* Save the time for next time */
   if (DeltaTime > 24) DeltaTime = 24
```

```
MeasuredVel = DeltaTracks * InverseTime[DeltaTime];
if (TrackCount > 9280)      /* Tracks > 128+(8*128)+(64*128) */
{
   DesiredVel = Vel_Table[383];
}
else if (TrackCount > 1152)
{
   DesiredVel = Vel_Table[256 + ((TrackCount - 1152) >> 6)];
}
else if (TrackCount > 128)
{
   DesiredVel = Vel_Table[128 + ((TrackCount - 128) >> 3)];
}
else
{
   DesiredVel = Vel_Table[TrackCount];
}
/* Loop Error = LoopGain * (Desired Velocity - Measured Velocity) */
VelError = (DesiredVel - MeasuredVel);
if (abs(VelError) < MaxVelError)
{
  LoopError = LoopGain * VelError;
}
else
{
  if (VelError > 0)
  {
    LoopError = (MaxPositive * Sign);
  }
  else
  {
    LoopError = - (MaxPositive * Sign).
  }
}
FineDacImage = LoopError.     /* Update the Image Value */
Fine_DAC = (LoopError+ZeroOffset).    /* write out accel value */
CrsDacZero = LoopError.  /* Output the coarse loop accel value */
```

```
        }
        CrsDacZero = OldCrsDacZero;
        Track_Capture(In_Out,Decel);
      }
  }
  else                                  /* If Vel Table Not initialized */
  {
    Stat_Buffer[0] |= Bad_Seek;         /* Set bad seek status bit */
  }
}
/*****************************************************************************/
/*     Do a Jumpback in or out                                               */
/*****************************************************************************/
void Do_Jumpback(In_Out)
int In_Out;
{
    int Accel,Decel,i;

    MaxRPP = 0;
    MinRPP = 0;         /* Initialize the min and max values to 0 */
    asm("     SETC   INTM");     /* Disable interupts */
    Cmd_Bits &= ~Tach_Bit;       /* Clear the Tach Bit */
    asm("     CLRC   INTM");     /* enable interupts */
    if (In_Out == Seek_In)       /* do jumpback in */
       {
       Accel = JB_Accel;
       Decel = JB_Decel;
       }
    else                         /* do jumpback out */
       {
       Accel = -JB_Accel;
       Decel = -JB_Decel;
       }
    Stat_Buffer[0] &= ~FineLoop. /* open the fine loop */
    FineDacImage = Accel.     /* Update the Image Value */
    Fine_DAC = (Accel + ZeroOffset).   /* write out the acceleration value */
    for (i = 0. i < 6. i++)    /* Wait 120 us for RPP to go away from zero */
```

```
        {
           Delay(1);
           if (MaxRPP < Int_Fine) MaxRPP = Int_Fine; /* Find RPP Min and Max */
           if (MinRPP > Int_Fine) MinRPP = Int_Fine;
        }
        Track_Capture(In_Out,Decel);
    }
    /*************************************************************************/
    /*     Track Capture After Jumpback or a seek                            */
    /*************************************************************************/
    void Track_Capture (In_Out,Decel)
    int In_Out,Decel;
    {
        int Counter,i;
        int OldDacZero;

                        /* Get ready for Capture */
        OldDacZero = FineDacZero;
        FineDacZero = Decel;
        Counter = 0;
                    /* Wait for 1/2 track */
        if (In_Out == Seek_In)  /* Wait for RPP to go low */
           {
           while (((Int_Fine - Fine_Zero) < 0) & (Counter < 6000))
             {
             Counter++;
             if (MinRPP > Int_Fine) MinRPP = Int_Fine; /* Find RPP Min */
             }
           }
        else                    /* wait for RPP to go high */
           {
           while (((Int_Fine - Fine_Zero) > 0) & (Counter < 6000))
             {
             Counter++;
             if (MaxRPP < Int_Fine) MaxRPP = Int_Fine;  /* Find RPP Max */
             }
           }
```

```
        FineDacImage = Decel;      /* Update the Image Value */
        Fine_DAC = (Decel + ZeroOffset);  /* Write out the deceleration value */
        for (i = 0; i < 3; i++)    /* Wait 60 us */
        {
           Delay(1);
           if (MaxRPP < Int_Fine) MaxRPP = Int_Fine; /* Find RPP Min and Max */
           if (MinRPP > Int_Fine) MinRPP = Int_Fine;
        }
        Stat_Buffer[0] |= FineLoop;  /* Close the fine tracking loop */
        for (i = 0; i < 3; i++)    /* Wait 80 us */
        {
           Delay(1);
           if (MaxRPP < Int_Fine) MaxRPP = Int_Fine; /* Find RPP Min and Max */
           if (MinRPP > Int_Fine) MinRPP = Int_Fine;
        }
        FineDacZero = OldDacZero; /* Remove the deceleration pulse */
    }
    /*****************************************************************************/
    /*     Retract the Carriage to the inner Crash Stop                          */
    /*****************************************************************************/
    void Retract (void)
    {
        int i;

        asm("     SETC    INTM");  /* Disable intr while changing image */
        Ctrl_Image |= CrsEnable;   /* Set the Coarse PA Enable bit on */
        Ctrl_Port = Ctrl_Image;    /* Write out the port value */
        asm("     CLRC    INTM");  /* Re enable interrupts */
        for (i = 0; i < Retr_Pulses; i++)
        {
           Crs_DAC = Retr_Accel + ZeroOffset;   /* Accel toward the spindle */
           Delay(250);              /* for 5 ms */
           Crs_DAC = ZeroOffset;    /* Coast toward the spindle */
           Delay(750);              /* for 15 ms */
        }
        Crs_DAC = Retr_Accel + ZeroOffset;   /* Hold at inner crash stop */
        Delay(5000);                /* for 100 ms */
```

```
}
/*****************************************************************************/
/*   Program Name      : Recal.c                                               */
/*   Description       : 4x 5.25" DSP Servo controller recalibration stuff     */
/*   Part Number       : 562096                                                */
/*   Date              : 2/2/94                                                */
/*   O/S               : N/A                                                   */
/*   Compiler          : TI TMS320C2x/C5x Compiler,#TMDS3242855-02,Rel. 6.0    */
/*   Support Packages  : N/A                                                   */
/*   Author            : Dave Schell                                           */
/*   Required Files    : Drive.c,Interupt.asm,C50_init.asm,Seek.c,Drive.h       */
/*                     : Recal.c                                               */
/*   Hardware Required : Part # XXXXXX                                         */
/*   Install. Instr.   : Link in with Drive code                               */
/*   Operating Instr.  : N/A                                                   */
/*                                                                             */
/*   Rev History                                                               */
/*     Date     Rev  C#  Init     Change Description                         */
/*    4/14/94   XA   00   DLS    Initial Release                              */
/*****************************************************************************/

#include "drive.h"

/*****************************************************************************/
/*   Set focus zero to the optimum RPP Focus Offset                          */
/*****************************************************************************/
void FocusOffset(void)     /* Find the Zero Offsets for Max RPP */
{
    int j,PeaktoPeak[3],Center;

    for (j = 0; j < 3, j++) PeaktoPeak[j] = 0,
    Center = Focus_Zero;
    for (j = 0, j < 3; j++)
    {
      Focus_Zero = Center - Foc_Step + (j * Foc_Step),
      PeaktoPeak[j] = FindPeaktoPeak(),
    }
```

```
        if (PeaktoPeak[0] > PeaktoPeak[2])
        {
          while ((j < 20) & (PeaktoPeak[0] > PeaktoPeak[2]))
          {
            Center -= Foc_Step;
            Focus_Zero = Center - Foc_Step;
            PeaktoPeak[2] = PeaktoPeak[1];
            PeaktoPeak[1] = PeaktoPeak[0];
            PeaktoPeak[0] = FindPeaktoPeak();
          }
        }
        else
        {
          while ((j < 20) & (PeaktoPeak[2] > PeaktoPeak[0]))
          {
            Center += Foc_Step;
            Focus_Zero = Center + Foc_Step;
            PeaktoPeak[0] = PeaktoPeak[1];
            PeaktoPeak[1] = PeaktoPeak[2];
            PeaktoPeak[2] = FindPeaktoPeak();
          }
        }
        Focus_Zero = Center;
    }
/*************************************************************************/
/*   Set RPP Zero to the center of the peak to peak RPP                  */
/*************************************************************************/
    void TrackOffset(void)     /* Find Zero Offset at (Max Rpp + Min RPP)/2 */
    {
      int i,Max,Min;

      Max = Min = 0.        /* Initialize the value */

      for (i = 0. i < 8. i++)
      {
        Delay(50)
        Do_Jumpback(Seek_In).
```

```
      Max += MaxRPP >> 4;  /* Max Value / 16 */
      Min += MinRPP >> 4;  /* Min Value / 16 */
    }
    for (i = 0; i < 8; i++)
    {
      Delay(50);
      Do_Jumpback(Seek_Out);
      Max += MaxRPP >> 4;  /* Max Value / 16 */
      Min += MinRPP >> 4;  /* Min Value / 16 */
    }
    Fine_Zero = (Max + Min) >> 1;   /* (Max RPP + Min RPP) / 2 */
  }
  /*****************************************************************************/
  /*   Measure the peak to peak RPP value by doing jumpbacks in and out       */
  /*****************************************************************************/
  int FindPeaktoPeak(void)  /* Find the peak to peak RPP Value */
  {
    int i,PeaktoPeak;

    PeaktoPeak = 0;        /* Initialize the value */

                /* Clear the Tach Bit */
    asm("     SETC   INTM");     /* Disable interupts */
    Cmd_Bits &= ~Tach_Bit;       /* Clear the Tach Bit */
    asm("     CLRC   INTM");     /* enable interupts */

                /* Wait for the tach to go high */
    while (((Cmd_Bits & Tach_Bit) == 0) && (i++ < 2500)) Delay(1);

    for (i = 0; i < 8; i++)
    {
      Delay(50);
      Do_Jumpback(Seek_In);
      PeaktoPeak += ((MaxRPP - MinRPP) >> 5);  /* Peak to peak / 32 */
    }
    for (i = 0; i < 8  i++)
    {
```

```
        Delay(50);
        Do_Jumpback(Seek_Out);
        PeaktoPeak += ((MaxRPP - MinRPP) >> 5);  /* Peak to peak / 32 */
      }
    return(PeaktoPeak);  /* Return the average pk-pk value/2 */
  }
;*****************************************************************************
;   Program Name      : Interupt.asm
;   Description       : DSP Interupt handling routines for the 4x 5.25"
;   Part Number       : 562096
;   Date              : 8/12/93
;   O/S               : N/A
;   Compiler          : TI TMS320C2x/C5x Compiler. #TMDS3242855-02,Rel. 6.0
;   Support Packages  : N/A
;   Author            : Dave Schell
;   Required Files    : Drive.c,Interupt.asm,C50_init.asm,Seek.c,Drive.h
;                     : Recal.c
;   Hardware Required : Part # XXXXXX
;   Install. Instr.   : Link in with Drive code
;   Operating Instr.  : N/A
;
;   Rev History
;     Date     Rev  C#  Init     Change Description
;   4/14/94    XA   00   DLS     Initial Release
;*****************************************************************************

            .title  "Processor Interupt Handlers"

            .length 60

            .mmregs

          .def    ISR1,ISR2,CMD_Intr,Timer
            def    Tach,Old_Tach_Time,_Tach_Time
            def    _TachUpLimit,_TachLowLimit
            def    RCV,XMT,TDMRCV,TDMXMT,TRP,NMISR
          . def    _Count_20_LSW,_Count_20_MSW,_Cmd_Bits,_CMD_Buffer
```

```
        .def    _Fine_DAC,_Crs_DAC,_ReadLS_DAC,_ReadMS_DAC,_Write_DAC
        .def    _Foc_LS_DAC,_Foc_MS_DAC,_Spare_DAC,_Track_Cnt,_SPC
        .def    _Int_QSum,_Int_Fine,_Int_FwdSen,_Int_Crs,_Int_Focus,_Int_Test
        .def    _Stat_Buffer,_Cmd_Buff_Point,_Ctrl_Image,_Ctrl_Port,Sign_Bit
        .def    _QSum_Zero,_Fine_Zero,_Focus_Zero,_FwdSen_Zero,_Crs_Zero
        .def    _FocMS_Image,_FocLS_Image,_FineDacImage,_CrsDacImage
        .def    Focus_N1,Focus_N2,Focus_N3,Focus_D2,Focus_D3,Focus_G
        .def    Fine_N1,Fine_N2,Fine_N3,Fine_D2,Fine_D3,Fine_G
        .def    Crs_N1,Crs_N2,Crs_N3,Crs_D2,Crs_D3,Crs_G,Pin_G
        .def    _Debug_Ram,Focus_Error,Old_Focus_1,_FineDacZero,_CrsDacZero
        .def    _Foc_Err_Cnt,_Focus_Limit,_Fine_Err_Cnt,_Fine_Limit


;  I/O Definition
_SPC        .set    00022h      ;Serial Port Control Register
Cmd_Port    .set    00050h      ;80188/DSP Communication Port
_Ctrl_Port  .set    00051h      ;I/O Control Port, laser, Power Amps, etc.
_Track_Cnt  .set    00051h      ;Track crossing counter read port
ADC_Data    .set    00053h      ;MP87099 ADC Data
ADC_Addr    .set    00053h      ;MP87099 ADC Address
Clock_High  .set    00056h      ;Read to take ADC Clock High
Clock_Low   .set    00057h      ;Read to take ADC Clock Low
_Fine_DAC   .set    00058H      ;7228 fine current DAC
_Crs_DAC    .set    00059H      ;7228 Coarse current DAC
_ReadLS_DAC .set    0005AH      ;7228 Laser Read current DAC
_ReadMS_DAC .set    0005BH      ;7228 Laser Read current DAC
_Write_DAC  .set    0005CH      ;7228 Laser Write current DAC
_Foc_LS_DAC .set    0005DH      ;7228 focus current DAC
_Foc_MS_DAC .set    0005EH      ;7228 focus current DAC
_Spare_DAC  .set    0005FH      ;7228 Spin current DAC


Bit0        set     15          ;Bit zero in BIT test is a 15
Bit1        .set    14          .Bit 1 in BIT test is a 14
Bit2        set     13
Bit3        set     12
```

```
Bit4        .set    11
Bit5        .set    10
Bit6        .set    9
Bit7        .set    8
Bit8        .set    7
Bit9        .set    6
Bit10       .set    5
Bit11       .set    4
Bit12       .set    3
Bit13       .set    2
Bit14       .set    1
Bit15       .set    0           ;Bit 15 in BIT test is a 0

SBL         .set    5           ;Status Buffer Length
CBL         .set    10          ;Command Buffer Length

; Analog to Digital Converter constants
Focus_ADC   .set    00000H      ;Address zero
QSum_ADC    .set    00001H      ;Address one
Crs_ADC     .set    00002H      ;Address two
Fine_ADC    .set    00003H      ;Address three
FwdSen_ADC  .set    00004H      ;Address four
Test_ADC    .set    00005H      ;Address five

MaxPos      .set    07FFFH      ;Max Positive value for DAC images
MaxNeg      .set    08000H      ;Max Negative value for DAC images
Min_QSum    .set    00240H      ;Minimum QSum before switching refs
Max_Bad_Samples .set 00004H     ;Number of bad samples before Errors Flags

Ref_Select  .set    00004H      ;The reference select bit of Ctrl_Port


;     Timer interupt variables
_Count_20_LSW .usect Time_Ram,1 ;20us counter LSWord, incremented by timer
_Count_20_MSW  usect Time_Ram,1 ;20us counter MSWord, incremented by timer
_Int_QSum      usect Time_Ram,1 ;Interrupt Quad Sum Value
_Int_Focus     usect Time_Ram 1 ;Interrupt Focus Value
```

```
Focus_Error     .usect Time_Ram,1   ;_Int_Focus - Zero Offset
Old_Focus_1     .usect Time_Ram,1   ;and old focus value
Old_Focus_2     .usect Time_Ram,1   ;and old focus value
_FocLS_Image    .usect Time_Ram,1   ;Focus LS DAC memory image for capture
_FocMS_Image    .usect Time_Ram,1   ;Focus DAC memory image for servos
Old_FocDac      .usect Time_Ram,1   ;Focus DAC memory image
Focus_N1        .usect Time_Ram,1   ;Focus Loop Constants, Numerator z^0
Focus_N2        .usect Time_Ram,1   ;Focus Loop Constants, Numerator z^-1
Focus_N3        .usect Time_Ram,1   ;Focus Loop Constants, Numerator z^-2
Focus_D2        .usect Time_Ram,1   ;Focus Loop Constants, Denominator z^-1
Focus_D3        .usect Time_Ram,1   ;Focus Loop Constants, Denominator z^-2
Focus_G         .usect Time_Ram,1   ;Focus Loop Constants, Gain
_Foc_Err_Cnt    .usect Time_Ram,1   ;Focus Sample out of spec counter
_Focus_Limit    .usect Time_Ram,1   ;Focus Error In Spec Limit
_Int_Fine       .usect Time_Ram,1   ;Interrupt Fine Value
Fine_Error      .usect Time_Ram,1   ;_Int_Fine - Zero Offset
Old_Fine_1      .usect Time_Ram,1   ;and old Fine value
Old_Fine_2      .usect Time_Ram,1   ;and old Fine value
_FineDacImage   .usect Time_Ram,1   ;Fine DAC memory image
Old_FineDac     .usect Time_Ram,1   ;Fine DAC memory image
_FineDacZero    .usect Time_Ram,1   ;Fine DAC Zero or Seek Accel Value
Fine_N1         .usect Time_Ram,1   ;Fine Loop Constants, Numerator z^0
Fine_N2         .usect Time_Ram,1   ;Fine Loop Constants, Numerator z^-1
Fine_N3         .usect Time_Ram,1   ;Fine Loop Constants, Numerator z^-2
Fine_D2         .usect Time_Ram,1   ;Fine Loop Constants, Denominator z^-1
Fine_D3         .usect Time_Ram,1   ;Fine Loop Constants, Denominator z^-2
Fine_G          .usect Time_Ram,1   ;Fine Loop Constants, Gain
_Fine_Err_Cnt   .usect Time_Ram,1   ;Fine Sample out of spec counter
_Fine_Limit     .usect Time_Ram,1   ;Fine Error In Spec Limit
_Int_Crs        .usect Time_Ram,1   ;Interrupt Coarse Value
Crs_Error       .usect Time_Ram,1   ;_Int_Crs - Zero Offset
Old_Crs_1       .usect Time_Ram,1   ;and old Coarse value
Old_Crs_2       .usect Time_Ram,1   ;and old Coarse value
_CrsDacImage    .usect Time_Ram,1   ;Coarse DAC memory image
Old_CrsDac      .usect Time_Ram,1   ;Coarse DAC memory image
_CrsDacZero     .usect Time_Ram,1   ;Coarse DAC Zero or Seek Accel Value
Crs_N1          .usect Time_Ram,1   ;Coarse Loop Constants, Numerator z^0
```

```
Crs_N2          .usect Time_Ram,1   ;Coarse Loop Constants, Numerator z^-1
Crs_N3          .usect Time_Ram,1   ;Coarse Loop Constants, Numerator z^-2
Crs_D2          .usect Time_Ram,1   ;Coarse Loop Constants, Denominator z^-1
Crs_D3          .usect Time_Ram,1   ;Coarse Loop Constants, Denominator z^-2
Crs_G           .usect Time_Ram,1   ;Coarse Loop Constants, Gain
Pin_G           .usect Time_Ram,1   ;Pinning Loop Constant, Gain
_Int_FwdSen     .usect Time_Ram,1   ;Interrupt Forward Sense Value
_Int_Test       .usect Time_Ram,1   ;Interrupt Test Value
_FwdSen_Zero    .usect Time_Ram,1   ;ADC Forward Sense Value with the laser off
_QSum_Zero      .usect Time_Ram,1   ;ADC Quad Sum Value with the laser off
_Fine_Zero      .usect Time_Ram,1   ;ADC Tracking Value with the laser off
_Focus_Zero     .usect Time_Ram,1   ;ADC Focus Value with the laser off
_Crs_Zero       .usect Time_Ram,1   ;ADC Postion Error zero value
Sign_Bit        .usect Time_Ram,1   ;Sign Bit value stored here (08000h)
Temp_1          .usect Time_Ram,1   ;Temp Value
Temp_2          .usect Time_Ram,1   ;Temp Value
_Debug_Ram      .usect Time_Ram,50  ;Debug Ram Area


;     Command interupt variables
OldAR           .usect Params,1     ;Old AR storage location for interupts
_Cmd_Bits       .usect Params,1     ;Register to signal a command is ready
                                    ;Bit 0 - 1 = Command Ready
                                    ;Bit 1 - Old Direction Bit
                                    ;Bit 2 - 0 = LSByte, 1 = MSByte
                                    ;Bit 3 - Focus Sample available
                                    ;Bit 4 - Fine Sample available
                                    ;Bit 5 - Coarse Sample available
                                    ;Bit 6 - Quad Sum Sample available
                                    ;Bit 7 - Laser Sense Sample available
                                    ;Bit 8 - Fine I/Test Sample available
                                    ;Bit 9 - Tach Pulse happened

_Ctrl_Image       usect Params,1        ;memory image of the Control Port
_Cmd_Buff_Point   usect Params,1        ;Storage for cmd pointers

_Stat_Buffer      usect Time_Ram SBL    ,Status Buffer, Length = SBL
```

```
_CMD_Buffer     .usect Time_Ram,CBL   ;Command Buffer, Length = CBL

Old_Tach_Time   .usect Params,1       ;Last Tach pulse time tick
_Tach_Time      .usect Params,1       ;Delta Tach Time
_TachUpLimit    .usect Params,1       ;Tach pulse Upper time limit
_TachLowLimit   .usect Params,1       ;Tach pulse Lower time limit

        .text
ISR1    RETE                          ;INIT1- Track Crossing Signal
ISR2    RETE                          ;INIT2- (Should not happen)
;*************************************************************************
;  Spindle Motor Tach Interrupt Handler, Set the One_Rev bit
;*************************************************************************
Tach                                   ;INIT3- (Tach Pulse)
        LAMM    _Cmd_Bits             ;Tell Kernel a Tach Pulse Happened
        OR      #00200h               ;Set the Tach Pulse bit
        SAMM    _Cmd_Bits             ;Save the new command bits
        LDPK    _Count_20_LSW         ;Point to the timer interupt page
        LACL    _Count_20_LSW         ;Get the current timer value
        LDPK    Old_Tach_Time         ;Point to the Tach time
        SUB     Old_Tach_Time         ;Subtract the old Value
        SACL    _Tach_Time            ;Save the delta value
        ADD     Old_Tach_Time         ;Restore the new time value
        SACL    Old_Tach_Time         ;Save it in the old value
        RETE
;*************************************************************************
;  Timer Interrupt Handler, All Real Time Servos and ADC's are done here!
;*************************************************************************
MSW_Time_Tick                         ;Only do this if lscounter rolled over
        LACL    _Count_20_MSW         ;Increment the 20 us counter          1
        ADD     #1                    ;                                     1
        SACL    _Count_20_MSW         ;Save it                              1
        B       Test_Time_Odd         ;Conitnue                             4
;  Actual start of the timer interupt routine
Timer
:debug
        LAMM    _Ctrl_Image           ;Start of interrupt
```

```
                OR      #02
                SAMM    _Ctrl_Port
                SAMM    _Ctrl_Image         ;Start of interrupt
        ;debug
        :
        :  Start of  the Focus ADC Conversion and Compensation Loop
        :
        Focus_Start
        ; Do the Focus Loop
                LACL    #Focus_ADC          ;Load the address
                SAMM    ADC_Addr            ;Tell the converter conversion address
        ; Update the counter while waiting for the conversion
                LDPK    _Count_20_LSW       ;Point to the timer interupt page     2
                LACC    _Count_20_LSW       ;Increment the 20 us counter          1
                ADD     #1                  ;                                     1
                SACL    _Count_20_LSW       ;                                     1
                BCND    MSW_Time_Tick,EQ    ;If Counter rolled over inc MSWord    2
        Test_Time_Odd
                BIT     _Count_20_LSW,Bit0  ;See if even or odd count             1
                BCND    ODD_Count,TC        ;Odd-Fwd Sense, Even-Coarse Loop    2,4
                LAMM    _Cmd_Bits           ;Update Command Bits with Sample Data 1
                OR      #00038h             ;Coarse, Fine, Focus available        2
                SAMM    Clock_High          ;Take the converter clock high        1
                B       Foc_B_1             ;Do the Even Stuff                    4
        ODD_Count
                NOP                         ;One extra clock for ADC timing       1
                SAMM    Clock_High          ;Take the converter clock high        1
                LAMM    _Cmd_Bits           ;Update Command Bits with Sample Data 1
                OR      #000D8h             ;Sense, Fine, Focus, QSum available   2
                NOP                         ;One extra clock for ADC timing       1
        Foc_B_1
                SAMM    Clock_Low           ;Take the converter clock low         1
                SAMM    _Cmd_Bits           ;Save the results                     1
                NOP
                SAMM    Clock_High          .Take the converter clock high        2
                LAMM    ADC_Data            .Get the result of the conversion     1
                XOR     Sign_Bit            .Make it a signed integer             1
```

```
                AND     #0FFC0h         ;Clear the 6 LSBits
                SACL    _Int_Focus      ;Save Focus Error                1
        ; Debug
                XOR     Sign_Bit        ;Add in the zero offset (8000H)  1
                SAMM    _Spare_DAC
                XOR     Sign_Bit        ;Add in the zero offset (8000H)  1
        ; Debug
                SUB     _Focus_Zero     ;Save the Focus Error            1
                SACL    Focus_Error     ;Focus DAC - Zero Value          1
                SPM     1               ;Set for fraction multiply       1
                ZAP                     ;                                1
                LT      Old_FocDac      ;Vout(N-2)                       1
                MPY     Focus_D3        ;Multiply by a constant          1
                LTD     _FocMS_Image    ;Vout(N-1) > Vout(N-2)           1
                MPY     Focus_D2        ;Multiply by a constant          1
                APAC                    ;Accumulate the results          1
                SACH    Temp_1          ;(D2*Vout(N-1)+D3*Vout(N-2) > temp 1
                ZAP                     ;                                1
                LT      Old_Focus_2     ;Vin(N-2)                        1
                MPY     Focus_N3        ;Multiply by a constant          1
                LTD     Old_Focus_1     ;Vi(N-1)>Vi(N-2) acc=Vi(n-2)*N3  1
                MPY     Focus_N2        ;Multiply by a constant          1
                LTD     Focus_Error     ;Vi(N)>Vi(N-1) acc=acc+Vi(n-1)*N2 1
        ; Focus Error values are updated. Update the focus DAC if the loop is closed
                BIT     _Stat_Buffer,Bit8 ;See if the focus loop is closed 1
                BCND    Focus_Open,NTC  ;Branch if the loop is not closed 2
        ;
                MPY     Focus_N1        ;preg = Vi(n)*N1                 1
                APAC                    ;Acc = Acc + Vi(n)*N1            1
                SACH    Temp_2          ;Save result                     1
                LT      Temp_2          ;Load the TReg                   1
                SPM     0               ;Set for regular multiply        1
                MPY     Focus_G         ;PReg = K2*(K3*Vin(N-1) - Vin(N)) 1
                LACC    Temp_1          ;acc = (D2*Vout(N-1)+D3*Vout(N-2) 1
                APAC                    ;acc = G*Numerator-Denominator   1
                XOR     Sign_Bit        ;Add in the zero offset (8000H)  1
                SAMM    _Foc_MS_DAC     ;Write out the value             1
```

```
                XOR     Sign_Bit            :Set the bit back                1
                SACL    _FocMS_Image        :Save the image                  1
    :Loop done unless there is an overflow
                BSAR    15                  :sign extend the 32 bit number   1
 5              BCND    Foc_Pos_OV,GT       :If greater than zero, + overflow 2
                CMPL                        :Ones complement the Acc         1
                BCND    Foc_Neg_OV,GT       :If greater than zero, - overflow 2
                B       Fine_Start          :Do the quad sum loop            4
    Foc_Pos_OV
10              LACC    #MaxPos             :Write Out Max Positive value    2
                SACL    _FocMS_Image        :Save the image                  1
                XOR     Sign_Bit            :Add in the zero offset (8000H)  1
                SAMM    _Foc_MS_DAC         :Write out the value             1
                B       Fine_Start          :                                4
15  Foc_Neg_OV
                LACC    #MaxNeg             :Write Out Max Positive value    2
                SACL    _FocMS_Image        :Save the image                  1
                XOR     Sign_Bit            :Add in the zero offset (8000H)  1
                SAMM    _Foc_MS_DAC         :Write out the value             1
20              B       Fine_Start          :                                4
    ;
    ;  End of  the Focus ADC Conversion and Compensation Loop
    ;  Start of the Fine Loop ADC Conversion and Compensation Loop
    ;
25  Focus_Open                              :Focus Loop Open, No Error Check
                LACL    #Fine_ADC           :TES address                     1
                SAMM    ADC_Addr            :Tell the converter conversion address3
                RPT     #4                  :Delay 6 clocks                  6
                NOP
30              B       Fine_Clk_High       :4 more clock of delay           4
    Fine_Start
    ; Do the Fine Tracking Loop
                LACL    #Fine_ADC           :TES address                     1
                SAMM    ADC_Addr            .Tell the converter conversion address3
35              LACC    Focus_Error         .Get the Focus Error Value       1
                ABS                         .Get the magnitude               1
                SUB     _Focus_Limit        .Compare to out of focus limit   1
```

```
                BCND    Focus_In_Spec,LEQ   ;Branch if in spec                   4/2
        Focus_Out_Spec
                LACL    _Foc_Err_Cnt        ;Get The Focus Error Count          1
                SUB     #Max_Bad_Samples    ;See if at max Number of bad Samples 1
 5              BCND    Fine_Clk_High,GEQ   ;If at Max then continue            4/2
                LACL    _Foc_Err_Cnt        ;Get The Focus Error Count          1
                ADD     #1                  ;Increment the Count                1
                SAMM    Clock_High          ;Take the converter clock high      1
                SACL    _Foc_Err_Cnt        ;Save the Incremeted Value          1
10              SUB     #Max_Bad_Samples    ;See if at max Number of bad Samples 1
                BCND    Fine_Clk_Low,LT     ;Continue if not at max count       4/2
                SAMM    Clock_Low           ;Take the converter clock low       1
                LACL    _Stat_Buffer        ;Set the Bad Focus Bit              1
                OR      #0400H              ;Set the Bit                        2
15              SACL    _Stat_Buffer        ;Save the Result                    1
        ; Debug, In the future, set the 188 interupt here
                B       Fine_Clk_H2         ;Continue                           4
        Dec_Foc_Cnt
                SAMM    Clock_High          ;Take the converter clock high      1
20              SUB     #1                  ;Decrement the Focus Error Count    1
                SACL    _Foc_Err_Cnt        ;Save the Decremeted Value          1
                NOP                         ;Delay 1 Clock                      1
                NOP                         ;Delay 1 Clock                      1
                SAMM    Clock_Low           ;Take the converter clock low       1
25              B       Fine_Clk_H2         ;Take the Clock Bit Low             4
        Focus_In_Spec
                LACL    _Foc_Err_Cnt        ;Get the Focus Error Count          1
                BCND    Dec_Foc_Cnt,NEQ     ;If not Zero then decrement         4/2
                NOP
30      Fine_Clk_High
                SAMM    Clock_High          ;Take the converter clock high      1
                RPT     #1                  ;Delay 3 clocks                     3
                NOP
        Fine_Clk_Low
35              SAMM    Clock_Low           ;Take the converter clock low       1
                NOP                                                             1
                NOP                                                             1
```

```
Fine_Clk_H2
        SAMM    Clock_High          ;Take the converter clock high      2
        LAMM    ADC_Data            ;Get the Data                       3
        XOR     Sign_Bit            ;Make it a signed integer           1
        SACL    _Int_Fine           ;Save Fine Error Value              1
        SUB     _Fine_Zero          ;Save the Fine Error                1
        SACL    Fine_Error          ;Fine Error - Zero Value            1
;Set up for fixed Reference Conversions
        LAMM    _Ctrl_Image         ;                                   1
        OR      #Ref_Select         ;Fixed Reference Bit                2
        SAMM    _Ctrl_Image         ;                                   1
        SAMM    _Ctrl_Port          ;                                   1
        SPM     1                   ;Set for fraction multiply          1
;Do the Loop Compensation
        ZAP                         ;                                   1
        LT      Old_FineDac         ;Vout(N-2)                          1
        MPY     Fine_D3             ;Multiply by a constant             1
        LTD     _FineDacImage       ;Vout(N-1) > Vout(N-2)              1
        MPY     Fine_D2             ;Multiply by a constant             1
        APAC                        ;Accumulate the results             1
        SACH    Temp_1              ;(D2*Vout(N-1)+D3*Vout(N-2) > temp  1
        ZAP                         ;                                   1
        LT      Old_Fine_2          ;Vin(N-2)                           1
        MPY     Fine_N3             ;Multiply by a constant             1
        LTD     Old_Fine_1          ;Vi(N-1)>Vi(N-2) acc=Vi(n-2)*N3     1
        MPY     Fine_N2             ;Multiply by a constant             1
        LTD     Fine_Error          ;Vi(N)>Vi(N-1) acc=acc+Vi(n-1)*N2   1
;Fine Error values are updated. Update the fine DAC if the loop is closed
        BIT     _Stat_Buffer,Bit7   ;See if the fine loop is closed     1
        BCND    FwdSenOrCrs,NTC     ;Branch if the loop is not closed   2
        MPY     Fine_N1             ;preg = Vi(n)*N1                    1
        APAC                        ;Acc = Acc + Vi(n)*N1               1
        SACH    Temp_2              ;Save result                        1
        LT      Temp_2              ,Load the TReg                      1
        SPM     0                   ,Set for regular multiply           1
        MPY     Fine_G              ,PReg = K2*(K3*Vin(N-1) - Vin(N))   1
        LACC    Temp_1              ;acc = (D2*Vout(N-1)+D3*Vout(N-2)   1
```

```
                APAC                    ;acc = G*Numerator-Denominator      1
                ADD     _FineDacZero    ;Add the DAC Zero Value(or Seek Accel)1
                SACL    _FineDacImage   ;Save the image                     1
                XOR     Sign_Bit        ;Toggle the MSBit                   1
                SAMM    _Fine_DAC       ;Write out the value                1
                XOR     Sign_Bit        ;Toggle the MSBit back              1
                  1
;Loop done unless there is an overflow
                BSAR    15              ;sign extend the 32 bit number      1
                BCND    Fine_Pos_OV,GT  ;If greater than zero, + overflow   2
                CMPL                    ;Ones complement the Acc            1
                BCND    Fine_Neg_OV,GT  ;If greater than zero, - overflow   2
                B       FwdSenOrCrs     ;Do the quad sum loop               4
Fine_Pos_OV
                LACC    #MaxPos         ;Write Out Max Positive value       2
                SACL    _FineDacImage   ;Save the image                     1
                XOR     Sign_Bit        ;Toggle the MSBit                   1
                SAMM    _Fine_DAC       ;Write out the value                1
                B       FwdSenOrCrs     ;                                   4
Fine_Neg_OV
                LACC    #MaxNeg         ;Write Out Max Positive value       2
                SACL    _FineDacImage   ;Save the image                     1
                XOR     Sign_Bit        ;Toggle the MSBit                   1
                SAMM    _Fine_DAC       ;Write out the value                1
;
;  End of  the Fine ADC Conversion and Compensation Loop
;
Fwd_Sen_Addr
; Get the Quad Sum Value
                LACC    #QSum_ADC       ;Get the Quad Sum Address
                SAMM    ADC_Addr        ;Tell the converter to start
                B       FwdSen_Crs_ADC  ;Continue Conversion/Error Checking
;
FineClosed      ;Error Check starts here if the Fine loop is closed
                LACC    Fine_Error      ;Get the Fine Error Value           1
                ABS                     ;Get Magnitude of the error
                SAMM    Clock_High      ;Take the converter clock high      1
```

```
                SUB     _Fine_Limit         ;Subtract the Fine error limit
                BCND    Fine_Out_Spec,GT    ;Branch if out of Spec
        Fine_In_Spec
                LACL    _Fine_Err_Cnt       ;Get the error count                1
                SAMM    Clock_Low           ;Take the converter clock low       1
                BCND    Dec_Fine_Cnt,NEQ    ;If not Equal then Decrement        2
                SAMM    Clock_High          ;Take the converter clock high      2
                LAMM    ADC_Data            ;Get the Data                       3
                SACL    Temp_2              ;Save the Results in temp 2
                B       Finish_Fwd_Crs      ;Finish the forward sense or coarse
        ;
        Dec_Fine_Cnt
                SUB     #1                  ;If not Equal then Decrement        1
                SACL    _Fine_Err_Cnt       ;Save the Result                    1
                SAMM    Clock_High          ;Take the converter clock high      2
                LAMM    ADC_Data            ;Get the Data                       3
                SACL    Temp_2              ;Save the Results in temp 2
                B       Finish_Fwd_Crs      ;Finish the forward sense or coarse 4
        ;
        Fine_Out_Spec
                SAMM    Clock_Low           ;Take the converter clock low       1
                NOP
                NOP
                SAMM    Clock_High          ;Take the converter clock high      2
                LAMM    ADC_Data            ;Get the Data                       3
                SACL    Temp_2              ;Save the Results in temp 2         1
                LACL    _Fine_Err_Cnt       ;Get the error count                1
                SUB     #Max_Bad_Samples    ;See if at max number of bad samples 1
                BCND    Finish_Fwd_Crs,GEQ  ;If at max then continue          4/2
                LACL    _Fine_Err_Cnt       ;else increment the error count     1
                ADD     #1                  ;increment                          1
                SACL    _Fine_Err_Cnt       ;Save the count                     1
                SUB     #Max_Bad_Samples    ;Test if now at max count           1
                BCND    Finish_Fwd_Crs,LT   ;continue if not a max count      4/2
                LACL    _Stat_Buffer        ;else set the fine tracking error bit 1
                OR      #1000H              ;Set the Bit                        2
                SACL    _Stat_Buffer        ;Save the result                    1
```

```
      ; Debug, in the Future set the 188 interupt bit here
                B       Finish_Fwd_Crs      ;Finish the forward sense or coarse
      ;
      FwdSenOrCrs
      ; Do the Coarse Or Forward Sense Conversion
                BIT     _Count_20_LSW,Bit0  ;See if even or odd count
                BCND    Fwd_Sen_Addr,TC     ;Odd-Fwd Sense, Even-Coarse Loop
      ; If not forward sense loop then do the coarse loop
                LACC    #Crs_ADC            ;Get the Coarse conversion command
                SAMM    ADC_Addr            ;Tell the converter to start
                RPT     #1
                NOP
      FwdSen_Crs_ADC                      ;Start fine loop error checking !!!
                BIT     _Stat_Buffer,Bit7   ;See if the fine loop is closed      1
                BCND    FineClosed,TC       ;Branch if the loop is closed        4/2
                RPT     #1                  ;No error checking if loop is open
                NOP
                SAMM    Clock_High          ;Take the converter clock high       1
                RPT     #1
                NOP
                SAMM    Clock_Low           ;Take the converter clock low        1
                NOP
                NOP
                SAMM    Clock_High          ;Take the converter clock high       2
                LAMM    ADC_Data            ;Get the Data                        3
                SACL    Temp_2              ;Save the value
      Finish_Fwd_Crs
                LACC    Temp_2              ;Restore data
                BIT     _Count_20_LSW,Bit0  ;See if even or odd count
                BCND    Fwd_Sense,TC        ;Odd-Fwd Sense, Even-Coarse Loop
                XOR     Sign_Bit            ;Make it a signed integer            1
                SACL    _Int_Crs            ;Save Coarse Error Value             1
                SUB     _Crs_Zero           ;Subtract the zero value             1
                SACL    Crs_Error           ;Crs DAC - Zero Value                1
                BIT     _Stat_Buffer,Bit5   ;See if the Pinning loop is close    1
                BCND    DoPin,TC            ;Branch if pinning is closed         2
                SPM     1                   ;Set for fraction multiply           1
```

```
                ZAP                             :                                       1
                LT      Old_CrsDac              :Vout(N-2)                              1
                MPY     Crs_D3                  :Multiply by a constant                 1
                LTD     _CrsDacImage            :Vout(N-1) > Vout(N-2)                  1
5               MPY     Crs_D2                  :Multiply by a constant                 1
                APAC                            :Accumulate the results                 1
                SACH    Temp_1                  :(D2*Vout(N-1)+D3*Vout(N-2) > temp      1
                ZAP                             :                                       1
                LT      Old_Crs_2               :Vin(N-2)                               1
10              MPY     Crs_N3                  :Multiply by a constant                 1
                LTD     Old_Crs_1               :Vi(N-1)>Vi(N-2) acc=Vi(n-2)*N3         1
                MPY     Crs_N2                  :Multiply by a constant                 1
                LTD     Crs_Error               :Vi(N)>Vi(N-1) acc=acc+Vi(n-1)*N2       1
        : Crs Error values are updated, Update the Crs DAC if the loop is closed
15              BIT     _Stat_Buffer,Bit6       :See if the Coarse loop is closed       1
                BCND    SwitchRef,NTC           :Branch if the loop is not closed       2
        ;
                MPY     Crs_N1                  :preg = Vi(n)*N1                        1
                APAC                            :Acc = Acc + Vi(n)*N1                   1
20              SACH    Temp_2                  :Save result                            1
                LT      Temp_2                  :Load the TReg                          1
                SPM     0                       :Set for regular multiply               1
                MPY     Crs_G                   :PReg = K2*(K3*Vin(N-1) - Vin(N))       1
                LACC    Temp_1                  :acc = (D2*Vout(N-1)+D3*Vout(N-2)       1
25              APAC                            :acc = (G*Numerator-Denominator)/4      1
                SFL                             :Shift left, Multiply by 2              1
                SFL                             :Shift left, Multiply by 4              1
                ADD     _CrsDacZero             :Add the DAC Zero Value                 1
                XOR     Sign_Bit                :Add in the zero offset (8000H)         1
30              SAMM    _Crs_DAC                :Write out the value                    1
                XOR     Sign_Bit                :Set the bit back                       1
                SACL    _CrsDacImage            :Save the image                         1
        :Loop done unless there is an overflow
                BSAR    15                      .sign extend the 32 bit number          1
35              BCND    Crs_Pos_OV,GT           :If greater than zero, + overflow       2
                CMPL                            .Ones complement the Acc                1
                BCND    Crs_Neg_OV,GT           .If greater than zero, - overflow       2
```

```
                B       SwitchRef       :Do the quad sum loop                   4
Crs_Pos_OV
                LACC    #MaxPos         :Write Out Max Positive value           2
                SACL    _CrsDacImage    :Save the image                         1
                XOR     Sign_Bit        :Add in the zero offset (8000H)         1
                SAMM    _Crs_DAC        :Write out the value                    1
                B       SwitchRef       :                                       4
Crs_Neg_OV
                LACC    #MaxNeg         :Write Out Max Positive value           2
                SACL    _CrsDacImage    :Save the image                         1
                XOR     Sign_Bit        :Add in the zero offset (8000H)         1
                SAMM    _Crs_DAC        :Write out the value                    1
                B       SwitchRef       :                                       4
; Crs Error values are updated, Do the Pinning Loop
DoPin
                NEG                     :Negate the Coarse Error
                SACL    Crs_Error       :Crs DAC - Zero Value                   1
                SPM     1               :Set for fraction multiply              1
                ZAP                     :                                       1
                LT      Old_FineDac     :Vout(N-2)                              1
                MPY     Crs_D3          :Multiply by a constant                 1
                LTD     _FineDacImage   :Vout(N-1) > Vout(N-2)                  1
                MPY     Crs_D2          :Multiply by a constant                 1
                APAC                    :Accumulate the results                 1
                SACH    Temp_1          :(D2*Vout(N-1)+D3*Vout(N-2) > temp      1
                ZAP                     :                                       1
                LT      Old_Crs_2       :Vin(N-2)                               1
                MPY     Crs_N3          :Multiply by a constant                 1
                LTD     Old_Crs_1       :Vi(N-1)>Vi(N-2) acc=Vi(n-2)*N3         1
                MPY     Crs_N2          :Multiply by a constant                 1
                LTD     Crs_Error       :Vi(N)>Vi(N-1) acc=acc+Vi(n-1)*N2       1

                MPY     Crs_N1          .preg = Vi(n)*N1                        1
                APAC                    .Acc = Acc + Vi(n)*N1                   1
                SACH    Temp_2          .Save result                            1
                LT      Temp_2          .Load the TReg                          1
                SPM     0               .Set for regular multiply               1
```

```
                MPY     Pin_G               ;PReg = K2*(K3*Vin(N-1) - Vin(N))    1
                LACC    Temp_1              ;acc = (D2*Vout(N-1)+D3*Vout(N-2)    1
                APAC                        ;acc = (G*Numerator-Denominator)/4   1
                SFL                         ;Shift left, Multiply by 2           1
                SFL                         ;Shift left, Multiply by 4           1
                ADD     _FineDacZero        ;Add the DAC Zero Value              1
                XOR     Sign_Bit            ;Add in the zero offset (8000H)      1
                SAMM    _Fine_DAC           ;Write out the value                 1
                XOR     Sign_Bit            ;Set the bit back                    1
                SACL    _FineDacImage       ;Save the image                      1
    ;Loop done unless there is an overflow
                BSAR    15                  ;sign extend the 32 bit number       1
                BCND    Pin_Pos_OV,GT       ;If greater than zero, + overflow    2
                CMPL                        ;Ones complement the Acc             1
                BCND    Pin_Neg_OV,GT       ;If greater than zero, - overflow    2
                B       SwitchRef           ;Do the quad sum loop                4
    Pin_Pos_OV
                LACC    #MaxPos             ;Write Out Max Positive value        2
                SACL    _FineDacImage       ;Save the image                      1
                XOR     Sign_Bit            ;Add in the zero offset (8000H)      1
                SAMM    _Fine_DAC           ;Write out the value                 1
                B       SwitchRef           ;                                    4
    Pin_Neg_OV
                LACC    #MaxNeg             ;Write Out Max Positive value        2
                SACL    _FineDacImage       ;Save the image                      1
                XOR     Sign_Bit            ;Add in the zero offset (8000H)      1
                SAMM    _Fine_DAC           ;Write out the value                 1
                B       SwitchRef           ;                                    4
    ; Read the forward sense and quad sum values
    Fwd_Sense
                SACL    _Int_QSum           ;Save the Quad Sum Value
    ; Get the forward sense value
                LACC    #FwdSen_ADC         ;Get the Forward Sense Address
                SAMM    ADC_Addr            ;Tell the converter to start
                LACL    _Int_QSum           ;Load it for modification
                BSAR    6                   ;Make it a 10 bit value
                AND     #03FFH              ;Make it positive
```

```
                SACL    _Int_QSum           ;Save the Forward Sense Value
                RPT     #3
                NOP
                SAMM    Clock_High          ;Take the converter clock high      1
                RPT     #1
                NOP
                SAMM    Clock_Low           ;Take the converter clock low       1
                NOP
                NOP
                SAMM    Clock_High          ;Take the converter clock high      2
                LAMM    ADC_Data            ;Get the result of the conversion
                BSAR    6                   ;Make it a 10 bit value
                AND     #03FFH              ;Make it positive
                SACL    _Int_FwdSen         ;Save the Forward Sense Value
SwitchRef
                LAMM    _Ctrl_Image         ;Get the control image
                AND     #0008h              ;See if the laser is on
                BCND    TimeEnd,EQ          ;If laser is off don't switch ref
                LAMM    _Ctrl_Image         ;Set up for Quad Sum Reference
                AND     #~Ref_Select        ;Clear the bit
                SAMM    _Ctrl_Port          ;Write it out
                SAMM    _Ctrl_Image
TimeEnd
:debug
                LAMM    _Ctrl_Image         ;end of interrupt
                AND     #0FDh
                SAMM    _Ctrl_Port
                SAMM    _Ctrl_Image
:debug
                RETE                        ;Timer interupt processing
;
RCV             RETE                        ;Serial Rx (Should not happen)
XMT             RETE                        ;Serial Xmit (Should not happen)
TDMRCV          RETE                        ;TDM Serial Rx (Should not happen)
TDMXMT          RETE                        ;TDM Serial Xmit (Should not happen)
;*****************************************************************************
;  Command Interupt Handler. Interrupt 4
```

```
;*************************************************************************
CMD_Intr
        BCND    CMD_Stat,BIO        ;If BIO=0,then see is a command or stat
        SETC    XF                  ;else Set the XF Bit and
        RETE                        ;Return
CMD_Stat
        LDP     #000h               ;Point to page 0;
        BIT     TSPC,Bit8           ;Test Bit 8 of the TSPC (Direction)
        BCND    Dir_Eq_High,TC      ;If Direction is 1 the See if Old = 1
        BIT     _Cmd_Bits,Bit1      ;Test the Old Direction bit
        BCND    CMD_Complete,TC     ;Branch if Old Dir = 1 & Dir = 0
;
Next_Status                         ;Old Dir=0,Dir=0 => ship next status;
        BIT     _Cmd_Bits,Bit2      ;Test the send MSByte or LSByte
        BCND    Stat_MSB,TC         ;Branch MSByte then branch
Stat_LSB
;Note Old Status bit is set
        MAR     *,AR1               ;Make AR1 active
        SAR     AR1,OldAR           ;Save AR1
        LAR     AR1,_Cmd_Buff_Point ;Load the pointer into AR1
        LACC    *+                  ;Load Status into the Accumulator
        SAMM    Cmd_Port            ;Write Out the Status;
        SAR     AR1,_Cmd_Buff_Point ;Save The Status Pointer
        LAR     AR1,#_Cmd_Bits      ;Toggle the MSByte/LSByte Bit
        XPL     #00004h,*           ;Toggle Bit 2 of the Cmd_Bits
        LAR     AR1,OldAR           ;Restore AR1
        CLRC    XF                  ;Clear the Acknowledge Bit
        RETE                        ;Exit interupt 4
Stat_MSB
        MAR     *,AR1               ;Make AR1 active
        SAR     AR1,OldAR           ;Save AR1
        LAR     AR1,_Cmd_Buff_Point ;Load the pointer into AR1
        LACC    *,8                 ;Load Status shifted 8 into the Acc
        SACH    Cmd_Port            ,Write Out the Status,
                                    ;The Status Pointer is unchanged
        LAR     AR1,#_Cmd_Bits      ,Toggle the MSByte/LSByte Bit
        XPL     #00004h *           ,Toggle Bit 2 of the Cmd_Bits
```

```
                LAR     AR1,OldAR           ;Restore AR1
                CLRC    XF                  ;Clear the Acknowledge Bit
                RETE                        ;Exit interupt 4
        ;
Dir_Eq_High
                BIT     _Cmd_Bits,Bit1      ;Test the Old Direction bit
                BCND    New_CMD,NTC         ;Branch if Old Dir = 0 & Dir = 1
        Next_CMD                            ;Old Dir=1,Dir=1 => get next cmd word:
                                            ;Note Old Status bit is set
                BIT     _Cmd_Bits,Bit2      ;Test the send MSByte or LSByte
                BCND    CMD_MSB,TC          ;Branch MSByte then branch
        CMD_LSB
        ;Note Old Status bit is set
                MAR     *,AR1               ;Make AR1 active
                SAR     AR1,OldAR           ;Save AR1
                LAR     AR1,_Cmd_Buff_Point ;Load the pointer into AR1
                LAMM    Cmd_Port            ;Load Command into the Accumulator
                AND     #00FFh              ;Clear the MSBits
                OR      *                   ;Or with the MSByte
                SACL    *                   ;Save the command word
        ;if AR1 > Command Buffer + Command Buffer Lenght then dec AR1
                LAR     AR1,#_Cmd_Bits      ;Toggle the MSByte/LSByte Bit
                XPL     #00004h,*           ;Toggle Bit 2 of the Cmd_Bits
                LAR     AR1,OldAR           ;Restore AR1
                CLRC    XF                  ;Clear the Acknowledge Bit
                RETE                        ;Exit interupt 4
        New_CMD
                LAMM    _Cmd_Bits           ;Get the Command Bit Register
                OR      #00006h             ;Set the Old Dir and MSB/LSB bits
                SAMM    _Cmd_Bits           ;Save the new command bits
                MAR     *,AR1               ;Make AR1 active
                SAR     AR1,OldAR           ;Save AR1
                LAR     AR1,#_CMD_Buffer    ;Load AR1 to the start of Cmd Buffer
                MAR     *-,AR1              ;Decrement the pointer
                SAR     AR1,_Cmd_Buff_Point ;Save it in the pointer
                B       Save_CMD_MSB
        CMD_MSB
```

```
                MAR     *,AR1                   ;Make AR1 active
                SAR     AR1,OldAR               ;Save AR1
                LAR     AR1,_Cmd_Buff_Point     ;Load the pointer into AR1
    Save_CMD_MSB
                LACC    _Cmd_Buff_Point         ;Get the Pointer Value
    :Subtract the start of the buffer + Length - 1
                SUB     #(_CMD_Buffer + CBL - 1)
                BCND    Save_Cmd_Point,GEQ      ;Branch if at the end of the buffer
                MAR     *+,AR1                  ;else increment the pointer
    Save_Cmd_Point
                SAR     AR1,_Cmd_Buff_Point     ;Save The Command Pointer
                LACC    Cmd_Port,8              ;Get the MSByte data in Acc. shl 8
                SACL    *                       ;Store the command into the buffer
                                                ;The Status Pointer is unchanged
                LAR     AR1,#_Cmd_Bits          ;Toggle the MSByte/LSByte Bit
                XPL     #00004h,*               ;Toggle Bit 2 of the Cmd_Bits
                LAR     AR1,OldAR               ;Restore AR1
                CLRC    XF                      ;Clear the Acknowledge Bit
                RETE                            ;Exit interupt 4
    ;
    CMD_Complete
                LAMM    _Cmd_Bits               ;Tell Kernel a command is ready
                OR      #00001h                 ;Set the Command Ready bit
                AND     #0FFFDh                 ;Clear Old Direction bit
                SAMM    _Cmd_Bits               ;Save the new command bits
                LAMM    IMR                     ;Get the Interupt Mask Register
                AND     #0FEFFh                 ;Clear interupt 4 enable bit
                SAMM    IMR                     ;Disable interupt 4
                RETE                            ;Exit interupt 4
    ;
    TRP         RETE                            ;Software trap (Should not happen)
    NMISR       RETE                            ;NMI interupt (Should not happen)
    ;*****************************************************************************
    .    Program Name       C50_Init.asm
    ;    Description        DSP Initialization for 4x 5 25"
    .    Part Number        562096
    .    Date               8/12/93
```

```
;    O/S              : N/A
;    Compiler         : TI TMS320C2x/C5x Compiler. #TMDS3242855-02.Rel. 6.0
;    Support Packages : N/A
;    Author           : Dave Schell
;    Required Files   : Drive.c,Interupt.asm,C50_init.asm,Seek.c,Drive.h
;                     : Recal.c
;    Hardware Required : Part # XXXXXX
;    Install. Instr.  : Link in with Drive code
;    Operating Instr. : N/A
;
;    Rev History
;      Date     Rev  C#  Init     Change Description
;    4/14/94    XA   00  DLS    Initial Release
;*******************************************************************************
 .include SimSet.equ

            .title  "Processor Initialization, C50_INIT.asm"
            .mmregs
            .ref    ISR1,ISR2,Tach,CMD_Intr,Timer
            .ref    RCV,XMT,TDMRCV,TDMXMT,TRP,NMISR,Sign_Bit
            .ref    _main,_c_int0,_Count_20_LSW,_Cmd_Bits,_Ctrl_Image
            .ref    _Stat_Buffer,_Count_20_MSW,_TachUpLimit,_TachLowLimit
            .ref    Focus_N1,Focus_N2,Focus_N3,Focus_D2,Focus_D3,Focus_G
            .ref    Fine_N1,Fine_N2,Fine_N3,Fine_D2,Fine_D3,Fine_G
            .ref    Crs_N1,Crs_N2,Crs_N3,Crs_D2,Crs_D3,Crs_G,Pin_G
            .ref    _FineDacZero,_CrsDacZero,_Foc_Err_Cnt,_Focus_Limit
            .ref    _Fine_Err_Cnt,_Fine_Limit
            .def    _init_regs,_Vel_Table,_InverseTime,_Read_Sense
            .def    _Write_Sense,_ReadMSImage,_ReadLSImage,_WriteDacImage
            .def    _MaxRPP,_MinRPP

_Vel_Table .usect V_Table,180h      ;Seek Velocity Table RAM Area
           .bss  _InverseTime,25    ;Inverse time table for seeks
           bss   _Read_Sense,1      ;Laser Read Sense Desired Level
           bss   _Write_Sense,1     ;Laser Write Sense Desired Level
           bss   _ReadMSImage,1     ;Laser Read DAC Bit Image
           bss   _ReadLSImage,1     ;Laser Read DAC Bit Image
```

```
                .bss  _WriteDacImage,1      ;Laser Write DAC 16 Bit Image
                .bss  _MaxRPP,1             ;Max RPP Value seen during a jumpback
                .bss  _MinRPP,1             ;Min RPP Value seen during a jumpback

; Abs(N1)+Abs(N2)+Abs(N3) must be < 1 to prevent over flow
; Abs(D2)+Abs(D3) must be < 1 to prevent over flow

;Vo(n)=-(D2*Vo(n-1)+D3*Vo(N-2))+(-1)*2*G*(0.5*(N1*Vi(N)+N2*Vi(N-1)+N3*Vi(N-3))
Foc_N1      .set    -8192               ;Foc Loop Const,-N1/4, -1.000*2^13
Foc_N2      .set    -877                ;Foc Loop Const,-N2/4, -0.107*2^13
Foc_N3      .set    7315                ;Foc Loop Const,-N3/4, .893*2^13
Foc_D2      .set    -11665              ;Foc Loop Const,-D2, -.356*2^15
Foc_D3      .set    -4456               ;Foc Loop Const,-D3, -.136*2^15
Foc_G       .set    167                 ;Foc Loop Gain Const, 4*36.059(*1.16??)

;Vo(n)=-(D2*Vo(n-1)+D3*Vo(N-2))+(-1)*2*G*(0.5*(N1*Vi(N)+N2*Vi(N-1)+N3*Vi(N-3))
Fin_N1      .set    8192                ;Fin Loop Const, N1/4, 1.000*2^13
Fin_N2      .set    877                 ;Fin Loop Const, N2/4, 0.107*2^13
Fin_N3      .set    -7315               ;Fin Loop Const, N3/4, -.893*2^13
Fin_D2      .set    -11665              ;Fin Loop Const, -D2, -.356*2^15
Fin_D3      .set    -4456               ;Fin Loop Const, -D3, -.136*2^15
Fin_G       .set    34                  ;Fin Loop Gain Const, 4*8.583

;Vo(n)=-(D2*Vo(n-1)+D3*Vo(N-2))+(-1)*2*G*(0.5*(N1*Vi(N)+N2*Vi(N-1)+N3*Vi(N-3))
Cr_N1       .set    8192                ;Crs Loop Const,-N1/2, (1.000/4)*2^15
Cr_N2       .set    203                 ;Crs Loop Const,-N2/2, (0.02482/4)*2^15
Cr_N3       .set    -7989               ;Crs Loop Const,-N3/2, (-.97518/4)*2^15
Cr_D2       .set    11893               ;Crs Loop Const,-D2,   (1.4518/4)*2^15
Cr_D3       .set    -4703               ;Crs Loop Const,-D3,   (-.57412/4)*2^15
Cr_G        .set    7                   ;Crs Loop Gain Const, 6.991

Pn_G        .set    7                   ;Pinning Loop Gain Const, 7.309

V_TBL       .sect   "vectors"

RESET       B       _c_int0                 .This section will be loaded in
                                            .program memory address 0h
```

```
INT1        B       ISR1                ;INIT1- begins processing here
INT2        B       ISR2                ;INIT2- begins processing here
INT3        B       Tach                ;INIT3- Spindle Motor Tach intr
TINT        B       Timer               ;Timer interupt processing
RINT        B       RCV                 ;Serial Recieve processing
XINT        B       XMT                 ;Serial transmit processing
TRNT        B       TDMRCV              ;TDM Serial Recieve processing
TXNT        B       TDMXMT              ;TDM Serial transmit processing
INT4        B       CMD_Intr            ;INIT4- begins processing here
            .space  14*16               ;14 words
TRAP        B       TRP                 ;Software trap processing
NMI         B       NMISR               ;NMI interupt processing

            .text
_init_regs  CLRC    OVM                 ;Allow nornal Overflow in Acc
            LDP     #00h                ;Load the Data Pointer to 00h
 .if Simulator = 1
; Need the next line to work with the simulator only.
            SPLK    #0800h,PMST         ;IPTR = 0800h, clear the rest
; Need this to work with real system
 .else
            SPLK    #0810h,PMST         ;Put SARAM into program memory
                                        ;and set IPTR = 0800h
 .endif
            SPLK    #00h,CWSR           ;Wait states are small and short
            SPLK    #00h,PDWSR          ;Set 0 wait states for ext mem
            SPLK    #0FF09h,IOWSR       ;0,1,& 2 wait states at 40MHz
            SPLK    #399,PRD            ;20uS period timer, (50ns*(400-1))
            SPLK    #20h,TCR            ;Reload and Enable the timer
            SPLK    #010Ch,IMR          ;Disable all interupts except the
                                        ;timer, tach (Intr 3) and
                                        ;Command Interupt (Intr 4)
            ZAP                         ;Zero the accumulator
            LDP     #_Count_20_LSW      ;Point to the memory location
            SACL    _Count_20_LSW       ;Zero the 20us count registar.
            LDP     #_Count_20_MSW      ;Point to the memory location
            SACL    _Count_20_MSW       ;Zero the 20us count registar.
```

```
                LDP     #_TachUpLimit           ;Point to the memory location
                SACL    _TachUpLimit            ;Zero the Tach Pulse check limit
                LDP     #_TachLowLimit          ;Point to the memory location
                SACL    _TachLowLimit           ;Zero the Tach Pulse check limit
                LDP     #_Stat_Buffer           ;Point to the memory location
                SACL    _Stat_Buffer            ;Zero the Status Buffer;
                LDP     #_Cmd_Bits              ;Point to the memory location
                SACL    _Cmd_Bits               ;Zero the Command Bits registar;
;Reset should have cleared the Control Port. Now Clear the image.
                LDP     #_Ctrl_Image            ;Point to the memory location
                SACL    _Ctrl_Image             ;Zero Control Port memory image
; Show that the Velocity Table has not been initialized
                LDP     #_Vel_Table             ;Initialize Vel Table to -1
                SPLK    #-1,_Vel_Table          ;Say the table is not initialized
; Show that the Inverse Time Table has not been initialized
                LDP     #_InverseTime           ;Initialize Inverse Time to -1
                SPLK    #-1,_InverseTime        ;Say the table is not initialized
; Initailize the Servo Loop Compensation Values
                LDP     #Focus_N1               ;Point to the memory location
                SPLK    #Foc_N1,Focus_N1        ;Store the initial value
                SPLK    #Foc_N2,Focus_N2        ;Store the initial value
                SPLK    #Foc_N3,Focus_N3        ;Store the initial value
                SPLK    #Foc_D2,Focus_D2        ;Store the initial value
                SPLK    #Foc_D3,Focus_D3        ;Store the initial value
                SPLK    #Foc_G,Focus_G          ;Store the initial value
                SPLK    #Fin_N1,Fine_N1         ;Store the initial value
                SPLK    #Fin_N2,Fine_N2         ;Store the initial value
                SPLK    #Fin_N3,Fine_N3         ;Store the initial value
                SPLK    #Fin_D2,Fine_D2         ;Store the initial value
                SPLK    #Fin_D3,Fine_D3         ;Store the initial value
                SPLK    #Fin_G,Fine_G           ;Store the initial value
                SPLK    #Cr_N1,Crs_N1           ;Store the initial value
                SPLK    #Cr_N2,Crs_N2           ;Store the initial value
                SPLK    #Cr_N3,Crs_N3           ;Store the initial value
                SPLK    #Cr_D2,Crs_D2           ;Store the initial value
                SPLK    #Cr_D3,Crs_D3           ;Store the initial value
                SPLK    #Cr_G,Crs_G             ;Store the initial value
```

```
        SPLK    #Pn_G.Pin_G             :Store the initial value
        SPLK    #08000h.Sign_Bit        :Store the initial value
        SPLK    #0._FineDacZero         :Store the initial value
        SPLK    #0._CrsDacZero          :Store the initial value
        SPLK    #0._Foc_Err_Cnt         :Store the initial value
        SPLK    #07FFFH._Focus_Limit    :Store the initial value
        SPLK    #0._Fine_Err_Cnt        :Store the initial value
        SPLK    #07FFFH._Fine_Limit     :Store the initial value
        CLRC    INTM                    :Enable interupts
        RET                             :Return to the calling program
```

What is claimed :-

1. An optical disc system of the type having a focusing mechanism and a tracking mechanism, the mechanisms being controlled by a feedback loop, the system further having a laser light source, and a magnetomotive field generator for subjecting a magneto-optical storage medium to a magnetic field, wherein the focusing mechanism focuses light emitted by the light source onto the medium to effect writing of information thereon, said system comprising:

an electronic circuit for generating a servo error signal, the error signal being communicated in the feedback loop for effecting corrections of said focusing mechanism and said tracking mechanism;

a laser driver for energizing the laser light source;

a bias coil disposed in the magnetomotive field generator;

a bias coil driver switchably connected to said bias coil for supplying an electric current thereto;

a current monitoring circuit connected to said bias coil driver having an output responsive to said electric current; and

a controller connected to said output of said current monitoring circuit and connected to said laser driver, said controller thereby enabling said laser driver when said output of said current monitoring circuit exceeds a predetermined magnitude so that information processed through said focusing mechanism is written onto the medium when the electric current flowing in said bias coil exceeds a threshold.

2. A magneto-optical disc system of the type having a laser light

ource, a magnetomotive field generator for subjecting a magneto-optical storage medium to a magnetic field, and a mechanism for focusing light emitted by the light source onto the medium to effect writing of information thereon, said system comprising:

a laser driver for energizing the laser light source;

a bias coil disposed in the magnetomotive field generator;

a bias coil driver switchably connected to said bias coil for supplying an electric current thereto;

a current monitoring circuit connected to said bias coil driver having an output responsive to said electric current; and

a controller connected to said output of said current monitoring circuit and connected to said laser driver, said controller thereby enabling said laser driver when said output of said current monitoring circuit exceeds a predetermined magnitude so that information is written onto the medium when the electric current flowing in said bias coil exceeds a threshold.

3. The system according to either claim 1 or 2 wherein said controller includes a microprocessor.

4. The system according to claim 3 wherein said microprocessor samples said output of said current monitoring circuit during an interval when said output of said current monitoring circuit is less than said predetermined magnitude, and predicts a time when said output of said current monitoring circuit exceeds a predetermined magnitude.

5. The system according to either claim 1 or 2 wherein said current monitoring circuit includes a resistor divider, and an analog-to-digital convertor coupled to said divider.

6. A method for writing information onto a magneto-optical storage medium, said method comprising the steps of:

providing a magnetomotive field generator for subjecting a region of space to a magnetic field, said generator being responsive to an electric current flowing therethrough;

disposing a magneto-optical storage medium in said region of space;

conducting said electric current through said generator;

monitoring a magnitude of the conducted electric current; and

impinging radiant energy on the storage medium for writing information thereon when the monitored magnitude exceeds a predetermined level.

7. The method according to claim 6 wherein said generator includes a bias coil, and said electric current flows through said bias coil.

8. The method according to claim 6 wherein said step of monitoring is performed by sampling during a ramp-up of said current, and further includes predicting a time at which said predetermined level will be exceeded.

9. The method according to claim 8 wherein said step of predicting a time is performed by linear extrapolation.

10. The method according to claim 8 wherein said step of predicting a time is performed by referencing memorized calibration data.

11. An optical disc system for writing information onto a storage

medium, the system being of the type having a focusing mechanism and a tracking mechanism, wherein the mechanisms are controlled by a feedback loop, said system comprising:

an electronic circuit for generating a servo error signal;

a laser light source;

a laser driver for energizing the laser light source;

a magnetomotive field generator for subjecting the medium to a magnetic field;

a bias coil disposed in the magnetomotive field generator;

a bias coil driver switchably connected to said bias coil for supplying an electric current thereto;

a current monitoring circuit connected to said bias coil driver having an output responsive to said electric current; and

a controller connected to said output of said current monitoring circuit and connected to said laser driver, said controller enabling said laser driver when said output of said current monitoring circuit exceeds a predetermined magnitude so that information is written onto the medium when the magnetic field exceeds a predetermined threshold.

12. A magneto-optical disc drive including an information storage medium, said magneto-optical disc drive operated according to the method recited in any of claims 6 to 10.