









> USER accessible blocks are numbered from 0 to n-1 ) or 2)  
> by specifying the Cylinder, and Head number of any track  
> on the disk surface.  
>

> The way that PositionHeads interprets the block number is  
> controlled by the input parameter Logical ( i.e., IF Logical  
> THEN BlockNumber is a Logical BlockNumber ELSE BlockNumber  
> is Cylinder and Head ).  
>

> The Spare Table is searched ONLY if Logical is true, this is  
> consistent with allowing a diagnostic program to get to any  
> spot on the disk independent of the data stored there.  
>

> Inputs:

> Wait : BOOLEAN { !r8/bit 6 }  
> Parent : BYTE { !rB }  
> Cylinder : WORD { !!rC }  
> Head : BYTE { !rE }  
> Sector : BYTE { !rF }  
>

> Outputs:

> PositionHeads : BOOLEAN { Zero Flag; i.e., Zero is True if  
> PositionHeads is True }

> Global Variables Changed:

> Cylinder, Head, Sector, Cur\_Cyl  
>

> Local Variables:

> Seek, PositionDone : BOOLEAN { !r4, !r3 }  
> Cyl, Magnitude : WORD { ( !rC, !rD ), ( !r5, !r6 )  
> Head, Sector, { !rE, !rF }  
> PosRetry, SioRetry, { !r7, !r8 }  
> Direction : BYTE { !r9 }  
>

> Algorithm:

> BEGIN

> SetDeadManTimer( PositionHeads, Parent )  
> SelectHead( Head )  
> Seek := CalcMagnitudeDirection( Cyl, Magnitude, Direction )  
> IF ( GlobalHead <> Head ) AND DiskStatus.Write THEN Seek := True  
> GlobalHead := Head  
> GlobalSector := Sector  
> PosRetry := 2  
> REPEAT  
> IF Seek AND ServoOk( RecalcMagAndDir { Boolean returned in !r0 } )  
> THEN  
> IF RecalcMagAndDir THEN Seek := CalcManitudeDirection( Cyl,  
> Magnitude, Direction )  
>  
> SioRetry := 2  
> WHILE ( SioRetry > 0 ) AND  
> NOT( ServoStore( AccessVar+Direction+  
> Magnitude[ 1 ], Magnitude[ 2 ],  
> AutoOffset, 0 ) DO  
>  
> IF Recovery  
> THEN  
> ResetServo  
> SioRetry := SioRetry - 1  
>  
> ELSE  
> SioRetry := 0  
> IF Wait AND ( SioRetry > 0 )  
> THEN WHILE NOT( ServoReady ) DO BEGIN END  
> PositionDone := NOT( ServoError )  
> PosRetry := PosRetry - 1  
>









