


```

PPPPPPPP      EEEEEEEEEEE      AAAAAA      KK      KK
PPPPPPPP      EEEEEEEEEEE      AAAAAA      KK      KK
PP      PP     EE      AA      AA      KK      KK
PP      PP     EE      AA      AA      KK      KK
PP      PP     EE      AA      AA      KK      KK
PP      PP     EE      AA      AA      KK      KK
PPPPPPPP      EEEEEEEEEEE      AA      AA      KKKKKK
PPPPPPPP      EEEEEEEEEEE      AA      AA      KKKKKK
PP      EE      AAAAAAAAAA      KK      KK
PP      EE      AAAAAAAAAA      KK      KK
PP      EE      AA      AA      KK      KK
PP      EE      AA      AA      KK      KK
PP      EEEEEEEEEEE      AA      AA      KK      KK
PP      EEEEEEEEEEE      AA      AA      KK      KK

```

```

....
....
....
....

```

```

FFFFFFFFFF      000000      RRRRRRRR
FFFFFFFFFF      000000      RRRRRRRR
FF      00      00      RR      RR
FF      00      00      RR      RR
FF      00      00      RR      RR
FF      00      00      RR      RR
FFFFFFFFFF      00      00      RRRRRRRR
FFFFFFFFFF      00      00      RRRRRRRR
FF      00      00      RR      RR
FF      00      00      RR      RR
FF      00      00      RR      RR
FF      00      00      RR      RR
FF      000000      RR      RR
FF      000000      RR      RR

```

File FPEAK.FOR
Version 'V04-000'

```

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```

```

Subroutine PEAK(ITABLE,INPUT,INLAST,INPTR,OUTPUT,IDIMO,NPEAKS)
!A trivial peak-picking routine. The calling sequence is patterned
!after the LSPLIB routine PEAK.

```

```

Integer*4 ITABLE(10),OUTPUT(2,IDIMO),INLAST,INPTR,IDIMO,NPEAK
Integer*2 INPUT(1)
Parameter NOISE = 5      !Noise value = 5 A/D units

```

```

!Initialize some parameters, if necessary
If( NPEAKS .lt. 0 ) NPEAKS = 0
If( INPTR .lt. 0 ) INPTR = 0

```

```

!First time thru?
If( INPTR .lt. INLAST .and. ITABLE(1) .eq. 0 ) Then
  INPTR = INPTR + 1
  ITABLE(1) = 1          !Assume we're rising
  ITABLE(2) = 1          !first point
  ITABLE(3) = INPUT(INPTR)
End If

```

```

!Any data to process?
If( INPTR .lt. INLAST ) Then
  Do 10 I = INPTR+1, INLAST
    If( ITABLE(1) .gt. 0 ) Then !We're rising, look for a fall
      If( INPUT(I) .lt. ITABLE(3)-NOISE ) Then !We found a peak
        If( NPEAKS .lt. IDIMO ) Then !Any room to store it?
          NPEAKS = NPEAKS + 1
          OUTPUT(1,NPEAKS) = ITABLE(3)
          OUTPUT(2,NPEAKS) = ITABLE(2)
          ITABLE(1) = -1
        End If
      End If
    End Do
  End If

```

PEAK.FOR;1

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```

      Else
        INPTR = I - 1
        NPEAKS = -IDIMO
        Return
      End If
    End If
  Else
    !We're falling, see if we found a valley
    If( INPUT(I) .gt. ITABLE(3)+NOISE ) ITABLE(1) = 1
  End If
  ITABLE(3) = INPUT(I)
  ITABLE(2) = ITABLE(2) + 1
10 End If
INPTR = -1
Return
End
!Normal exit all data processed.
```

XALINK
MAR

LABIOLINK
COM

DRMASTER
FOR

LPATEST
FOR

LABTOPEAK
FOR

LABIOSTR
COM

XMESSAGE
MAR

XATEST
FOR

LABTOCOM
FOR

LABDEMO
COM

LABMBXDEF
FOR

LABTOSAMP
FOR

MAILCOMPRESS
COM

LABCHNDEF
FOR

CONNECT
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LABTOCON
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LABTOACQ
FOR

LABTOCOMP
COM

LABIOSTAT
FOR

TESTLABIO
FOR