



```

\makeatletter
\def\pserrorLine{\pst@object{pserrorLine}}
\def\pserrorLine@i(#1)#2#3{\begingroup
\use@par \pst@getcoor{#1}\pst@tempA
\def\ps@xErr{#2}\def\ps@yErr{#3}%
\psline{|-|}{! /yDot \pst@tempA exch pop \pst@number\psyunit div def
/xDot \pst@tempA pop \pst@number\psxunit div def
xDot yDot yDot \ps@yErr\space mul add )
(! /yDot \pst@tempA exch pop \pst@number\psyunit div def
/xDot \pst@tempA pop \pst@number\psxunit div def
xDot yDot yDot \ps@yErr\space mul sub )
\psline{|-|}{! /yDot \pst@tempA exch pop \pst@number\psyunit div def
/xDot \pst@tempA pop \pst@number\psxunit div def
xDot xDot \ps@xErr\space mul add yDot )

```

```

        (! /yDot \pst@tempA exch pop \pst@number\psyunit div def
        /xDot \pst@tempA pop \pst@number\psxunit div def
        xDot xDot \ps@xErr\space mul sub yDot )
\endgroup}

\newcounter{loopcount}
\def\GetCoordinates#1#2#3#4#5{%
\def\relxerr{#2}\def\relyerr{#3}\def\numplot{#4}\def\numplotmax{#5}
\expandafter\GetCoordinates@i#1}

\def\GetCoordinates@i#1{\GetCoordinates@ii#1}
\def\GetCoordinates@ii D #1 {%
\stepcounter{loopcount}
\ifnum\thelooopcount=1 \def\plotxval{#1 }\else
\ifnum\thelooopcount=\numplot \def\plotyval{#1 }\else
\ifnum\thelooopcount=\numplotmax
\psdot(!\plotxval \plotyval)
\pserrorLine(!\plotxval \plotyval){\relxerr}{\relyerr}%
\setcounter{loopcount}{0}
\fi\fi\fi%
\@ifnextchar D{\GetCoordinates@ii}{}}
\makeatother

\begin{document}
\pagestyle{empty}
\pagenumbering{arabic}

\psset{xAxisLabel=Centerline Velocity[m/s],
yAxisLabel=Vibration Amplitude [ \%Dia],
xAxisLabelPos={c,-0.5in},
yAxisLabelPos={-0.5in,c},
lly=-0.55in,llx=-0.55in,ury=0.25in,urx=0.15in}

\readdata[ignoreLines=0]{\dataA}{doterrorbar.dat}

\begin{psgraph}[Dx=5,Dy=5,xsubticks=0,ysubticks=0,0x=5,0y=15](5,15)(45,60){4in}{4in}
\psset{linecolor=red}
\GetCoordinates{\dataA}{0.01}{0.1}{2}{4}
\end{psgraph}

```