```
   1    + ## file abbot2.m;
   2    + ## trying to add a spanning title above,
   3    + ## and a spanning xlabel below,
   4    + ## the two adjacent touching plots produced
   5    + ## by the procedure Ben Abbot proposed:
   6    + ## going to run by $ octave
   7    + ## 1> diary on, echo on, more off
   8    + ## 2> abbot2
   9    + figure (1)
  10    warning: no graphical display found
  11    + clf
  12    + x1 = .21:0.05:.41;
  13    + y = 1.0 + 0.5 * sin (x1);
  14    + x2 = sqrt (y);
  15    + xlabelstr1 = "x1, (rad)";
  16    + titlestr = "?spannint title at top?";
  17    + now = ctime (time);
  18    + xlabelstr2 = strcat ("x2 = sqrt(y)", "\n", " ?spanning date?  ", now)
  19    xlabelstr2 = x2 = sqrt(y)
  20     ?spanning date?Wed Jun 22 14:23:31 2011
  21
  22    + h1 = axes ();
  23    + h2 = axes ();
  24    + p1 = p2 = get (h1, "position");
  25    + p1 (3) = p2 (3) = p1 (3) / 2;
  26    + p2 (1) = p2 (1) + p1 (3);
  27    + p1 (4) = p2 (4) = 0.9 * p1 (4);
  28    + ## leaving room at top;
  29    + p1 (2) = p2 (2) = 1.06 * p1 (2);
  30    + ## leaving room at bot;
  31    + axes (h1)
  32    + plot (x1, y, '@+k;y = 1 + sin(x1)/2 ;', "linewidth", 2, "markersize", 3)
  33    + xlabel (xlabelstr1);
  34    + ylabel ("y = 1 + sin(x)/2")
  35    + set (h1, "xlim", [.10, .50], "ylim", [1.08, 1.22]);
  36    + set (h1, "xtick", [.2:.1:.4]);
  37    + set (h1, "xticklabel", {"0.2", "0.3", "0.4"});
  38    + set (h1, "ytick", [1.1:.05:1.2]);
  39    + set (h1, "yticklabel", {"1.1", "1.15", "1.20"});
  40    + legend ("location", "northwest");
  41    + set (h1, "xgrid", "on");
  42    + set (h1, "ygrid", "on");
  43    + title (titlestr);
  44    + axes (h2)
  45    + plot (x2, y, '@+k;x2 = sqrt(y);', "linewidth", 2, "markersize", 3)
  46    + set (h2, "xlim", [1.02, 1.14], "ylim", [1.08, 1.22]);
  47    + set (h2, "xtick", [1.04:.04:1.12]);
  48    + set (h2, "xticklabel", {"1.04", "1.08", "1.12"});
  49    + set (h2, "ytick", [1.1:.05:1.2]);
  50    + set (h2, "yticklabel", []);
  51    + set (h2, "xgrid", "on");
  52    + set (h2, "ygrid", "on");
  53    + legend ("location", "northwest");
  54    + xlabel (xlabelstr2);
  55    + set (h1, "position", p1);
  56    + set (h2, "position", p2);
  57    + outfile = "test2.pdf";
  58    + print (outfile)
  59    warning: print.m: epstool binary is not available.
  60    Some output formats are not available.
  61    warning: print.m: pstoedit binary is not available.
  62    Some output formats are not available.
  63    + diary ('off')
```