```
TITLE:   9 bi-annual measurements for 11 cohorts born 1931-1941 treated

         as Knownclass. 3 growth mixture classes

DATA:    FILE BmiHrs.dat;


VARIABLE: NAMES = cbmi1-cbmi9 female cyob current former died2-died9 h1_2;

         usev = cbmi1-cbmi9;


         USEOBSERVATIONS ARE female==0;

         MISSING = *;

         CLASSES = cg(11) c(3);

         knownclass = cg(cyob);


ANALYSIS: TYPE = MIXTURE;


         starts = 400 100;

         processors = 8;



MODEL:   %OVERALL%

         i s | cbmi1@-4 cbmi2@-3 cbmi3@-2 cbmi4@-1 cbmi5@0

             cbmi6@1 cbmi7@2 cbmi8@3 cbmi9@4;



         model cg:
```

%cg#1% ! born 1941 (cyob = -5)

i s | cbmi1@-.8 cbmi2@-.6 cbmi3@-.4 cbmi4@-.2 cbmi5@0

  cbmi6@.2 cbmi7@.4 cbmi8@.6 cbmi9@.8; ! centering at age 60

[i-s] (1-2);

%cg#2% ! born 1940 (cyob = -4)

i s | cbmi1@-.7 cbmi2@-.5 cbmi3@-.3 cbmi4@-.1 cbmi5@.1

  cbmi6@.3 cbmi7@.5 cbmi8@.7 cbmi9@.9;

[i-s] (1-2);

%cg#3% ! born 1939 (cyob = -3)

i s | cbmi1@-.6 cbmi2@-.4 cbmi3@-.2 cbmi4@0 cbmi5@.2

  cbmi6@.4 cbmi7@.6 cbmi8@.8 cbmi9@1.0;

  [i-s] (1-2);

%cg#4% ! born 1938 (cyob = -2)

i s | cbmi1@-.5 cbmi2@-.3 cbmi3@-.1 cbmi4@.1 cbmi5@.3

  cbmi6@.5 cbmi7@.7 cbmi8@.9 cbmi9@1.1;

  [i-s] (1-2);

%cg#5% ! born 1937 (cyob = -1)

i s | cbmi1@-.4 cbmi2@-.2 cbmi3@0 cbmi4@.2 cbmi5@.4

  cbmi6@.6 cbmi7@.8 cbmi8@1.0 cbmi9@1.2;

  [i-s] (1-2);

%cg#6% ! born 1936 (cyob = 0)

i s | cbmi1@-.3 cbmi2@-.1 cbmi3@.1 cbmi4@.3 cbmi5@.5

  cbmi6@.7 cbmi7@.9 cbmi8@1.1 cbmi9@1.3;

  [i-s] (1-2);

%cg#7% ! born 1935 (cyob = 1)

i s | cbmi1@-.2 cbmi2@0 cbmi3@.2 cbmi4@.4 cbmi5@.6

   cbmi6@.8 cbmi7@1.0 cbmi8@1.2 cbmi9@1.4;

   [i-s] (1-2);

%cg#8% ! born 1934 (cyob = 2)

i s | cbmi1@-.1 cbmi2@.1 cbmi3@.3 cbmi4@.5 cbmi5@.7

   cbmi6@.9 cbmi7@1.1 cbmi8@1.3 cbmi9@1.5;

   [i-s] (1-2);

%cg#9% ! born 1933 (cyob = 3)

i s | cbmi1@0 cbmi2@.2 cbmi3@.4 cbmi4@.6 cbmi5@.8

   cbmi6@1.0 cbmi7@1.2 cbmi8@1.4 cbmi9@1.6;

   [i-s] (1-2);

%cg#10% ! born 1932 (cyob = 4)

i s | cbmi1@.1 cbmi2@.3 cbmi3@.5 cbmi4@.7 cbmi5@.9

   cbmi6@1.1 cbmi7@1.3 cbmi8@1.5 cbmi9@1.7;

   [i-s] (1-2);

%cg#11% ! born 1931 (cyob = 5)

i s | cbmi1@.2 cbmi2@.4 cbmi3@.6 cbmi4@.8 cbmi5@1.0

   cbmi6@1.2 cbmi7@1.4 cbmi8@1.6 cbmi9@1.8;

   [i-s] (1-2);


Model c:

   %c#1%

   [i-s];

   i-s;

i with s;


%c#2%

[i-s];

i-s;

i with s;


%c#3%

[i-s];

i-s;

i with s;


output:

tech1 tech4 tech8 residual;

PLOT:    TYPE = plot3;

SERIES = cbmi1-cbmi9(s);