clear

use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

putmata n0

putmata n1

mata

P=J(rows(n0),1,0)

k1=0.2

k2=0.2

for (i=1; i<=rows(n0);i++)

{

P[i,1]=n0[i]\*k1+n1[i]\*k2

}

P

mata stata getmata P

mata stata save min\_sample1.dta, replace

mata stata stset P, id(yeshut\_no) failure(status==1)

mata stata stcox, estimate mgale(h10) basehc(h9) basechazard(h12) basesurv(h11)

mata stata stcurve, hazard width(4) kernel(gaussian) noboundary outfile("D:\Mata C\set\_1.dta", replace) ytitle(HAZARD RATE) ymtick(0(0.005)0.03, labels labgap(zero)) xlabel(0(1)17)

mata stata use "D:\Mata C\set\_1.dta", clear

mata stata putmata haz1

H1=J(rows(haz1),1,0)

for (i=1; i<=rows(haz1);i++){

H1[i,1]=haz1[i]

}

H1

mata stata clear

mata stata use "C:\Users\owner\Documents\C\sample2.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

P1=J(rows(n0),1,0)

for (i=1; i<=rows(n0);i++)

{

P1[i,1]=n0[i]\*k1+n1[i]\*k2

}

mata stata getmata P1

mata stata save sample2.dta, replace

mata stata stset P1, id(yeshut\_no) failure(status==1)

mata stata stcox, estimate mgale(h10) basehc(h9) basechazard(h12) basesurv(h11)

mata stata stcurve, hazard width(4) kernel(gaussian) noboundary outfile("D:\Mata C\set\_1.dta", replace) ytitle(HAZARD RATE) ymtick(0(0.005)0.03, labels labgap(zero)) xlabel(0(1)17)

mata stata use "D:\Mata C\set\_1.dta", clear

mata stata putmata haz1, replace

H2=J(rows(haz1),1,0)

for (i=1; i<=rows(haz1);i++){

H2[i,1]=haz1[i]

}

H2

D=0

S=0

S1=0

for (i=1; i<=101; i++)

{

S=S+(H1[i,1]-H2[i,1])^2;

S1=S1+H1[i,1]

}

V=S1/101

J=(S/100)^0.5/V

C=10^15

if (J<C)

{

C=J;

D=k2;

}

C

D

k1=0.2

k2=0.4

mata stata clear

mata stata use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

for (i=1; i<=rows(n0);i++)

{

P[i,1]=n0[i]\*k1+n1[i]\*k2

}

mata stata getmata P

mata stata save min\_sample1.dta, replace

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}

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H2=J(rows(haz1),1,0)

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H2[i,1]=haz1[i]

}

H2

S=0

for (i=1; i<=101; i++)

{

S=S+(H1[i,1]-H2[i,1])^2

}

S

if (S<C)

{

C=S;

D=k2;

}

C

D

k1=0.2

k2=0.6

mata stata clear

mata stata use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

for (i=1; i<=rows(n0);i++)

{

P[i,1]=n0[i]\*k1+n1[i]\*k2

}

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}

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mata stata putmata n1,replace

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}

H2

S=0

for (i=1; i<=101; i++)

{

S=S+(H1[i,1]-H2[i,1])^2

}

S

if (S<C)

{

C=S;

D=k2;

}

C

D

k1=0.2

k2=0.8

mata stata clear

mata stata use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

for (i=1; i<=rows(n0);i++)

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P[i,1]=n0[i]\*k1+n1[i]\*k2

}

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}

H2

S=0

for (i=1; i<=101; i++)

{

S=S+(H1[i,1]-H2[i,1])^2

}

S

if (S<C)

{

C=S;

D=k2;

}

C

D

k1=0.2

k2=1

mata stata clear

mata stata use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

for (i=1; i<=rows(n0);i++)

{

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}

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mata stata putmata n1,replace

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H2[i,1]=haz1[i]

}

H2

S=0

for (i=1; i<=101; i++)

{

S=S+(H1[i,1]-H2[i,1])^2

}

S

if (S<C)

{

C=S;

D=k2;

}

C

D

k1=0.2

k2=1.2

mata stata clear

mata stata use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

for (i=1; i<=rows(n0);i++)

{

P[i,1]=n0[i]\*k1+n1[i]\*k2

}

mata stata getmata P

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mata stata putmata haz1, replace

H2=J(rows(haz1),1,0)

for (i=1; i<=rows(haz1);i++){

H2[i,1]=haz1[i]

}

H2

S=0

for (i=1; i<=101; i++)

{

S=S+(H1[i,1]-H2[i,1])^2

}

S

if (S<C)

{

C=S;

D=k2;

}

C

D

k1=0.2

k2=1.4

mata stata clear

mata stata use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

for (i=1; i<=rows(n0);i++)

{

P[i,1]=n0[i]\*k1+n1[i]\*k2

}

mata stata getmata P

mata stata save min\_sample1.dta, replace

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}

H1

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}

H2

S=0

for (i=1; i<=101; i++)

{

S=S+(H1[i,1]-H2[i,1])^2

}

S

if (S<C)

{

C=S;

D=k2;

}

C

D

k1=0.2

k2=1.6

mata stata clear

mata stata use "C:\Users\owner\Documents\C\min\_sample1.dta", clear

mata stata putmata n0,replace

mata stata putmata n1,replace

for (i=1; i<=rows(n0);i++)

{

P[i,1]=n0[i]\*k1+n1[i]\*k2

}

mata stata getmata P

mata stata save min\_sample1.dta, replace

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S

if (S<C)

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C=S;

D=k2;

}

C

D

k1=0.2

k2=1.8

mata stata clear

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S=S+(H1[i,1]-H2[i,1])^2

}

S

if (S<C)

{

C=S;

D=k2;

}

C

D

end