
**NLSY79 APPENDIX 1:
EMPLOYMENT STATUS RECODE
VARIABLES 1979-1998**

VARIABLE CREATION: ESR 1979–1998

Employment Status Recode (ESR) is a standard measure of the respondent's main labor force activity during the survey week (Sunday through Saturday preceding the interview date). What follows is a PL/I adaptation of a Fortran program used by the Census Bureau to create ESR for 1979-1993, and for 1994 through 1998, an SPSS adaptation of the decision rules provided by the Census Bureau to create MLR using the new CAPI-generated CPS data. Note that ESR was not created in 2000 because the CPS section on activity in the week before the survey was not included in that survey.

Appendix 1: Employment Status Recode (ESR) Variable Creation

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/*1979-83*/ DCL 1 ESR_VARIABLES(5),
    5 ABSENT,          5 ESR,          5 NEWJOB,
    5 ANYWK,          5 ESRC,        5 OCCTYP,
    5 DO4WKS,        5 HRSWK,      5 WEEKS,
    5 DOING,         5 INDYTP,     5 WEIGHT,
    5 EMPLOY,        5 LOOK,       5 WHYNOT,
    5 EMPTYP,        5 MILITARY,   5 WHYOFF;

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/* 1979 VARIABLES */

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DOING(1)=R(434.);          if R(434.)<1 ! R(434.)>7 then DOING(1)=na;
ANYWK(1)=R(435.);        if R(435.)<0 ! R(435.)>1 then ANYWK(1)=na;
HRSWK(1)=R(436.);        if R(436.)<1 ! R(436.)>96 then HRSWK(1)=na;
                          if R(444.)>0 then HRSWK(1)=R(444.);
                          if R(450.)>0 then HRSWK(1)=R(450.);
HRANGE(1)=R(437.);      if R(437.)<1 ! R(437.)>3 then HRANGE(1)=na;
HRS35(1)=R(438.);        if R(438.)<0 ! R(438.)>1 then HRS35(1)=na;
REAS35(1)=R(439.);      if R(439.)<1 ! R(439.)>19 then REAS35(1)=na;
                          if R(440.)>0 then REAS35(1)=R(440.);
                          if R(445.)=1 then HRANGE(1)=R(445.);
                          if R(446.)>0 then REAS35(1)=R(446.);
OFFWORK(1)=R(441.);      if R(441.)<0 ! R(441.)>1 then OFFWORK(1)=na;
OTIME(1)=R(447.);        if R(447.)<0 ! R(447.)>1 then OTIME(1)=na;
ABSENT(1)=R(452.);      if R(452.)<0 ! R(452.)>1 then ABSENT(1)=na;
WHYOFF(1)=R(453.);      if R(453.)<1 R(453.)>9 then WHYOFF(1)=na;
SALARY(1)=R(459.);      if R(459.)<0 ! R(459.)>3 then SALARY(1)=na;
WORK35(1)=R(460.);      if R(460.)<0 ! R(460.)>1 then WORK35(1)=na;
LOOK(1)=R(511.);        if R(511.)<0 ! R(511.)>1 then LOOK(1)=na;
DO4WKS(1)=R(512.);
WHYLK(1)=R(517.);      if R(517.)<1 ! R(517.)>11 then WHYLK(1)=na;
WEEKS(1)=R(457.);      if R(457.)<1 ! R(457.)>96 then WEEKS(1)=na;
                          if R(519.)>0 then WEEKS(1)=R(519.);
                          if R(523.)>0 then WEEKS(1)=R(523.);
WKTIME(1)=R(458.);      if R(458.)<1 ! R(458.)>2 then WKTIME(1)=na;
                          if R(520.)>0 then WKTIME(1)=R(520.);
                          if R(524.)>0 then WKTIME(1)=R(524.);
WHYNOT(1)=R(522.);      if R(522.)<1 ! R(522.)>5 then WHYNOT(1)=na;
                          if R(521.)=0 then WHYNOT(1)=R(521.);
                          if R(525.)=0 then WHYNOT(1)=R(525.);
                          if R(526.)>0 then WHYNOT(1)=R(526.);
INDYTP(1)=R(463.);      if R(463.)<0 ! R(463.)>998 then INDYTP(1)=na;
EMPTYP(1)=R(468.);      if R(468.)<0 ! R(468.)>4 then EMPTYP(1)=na;
OCCTYP(1)=R(464.);      if R(464.)<0 ! R(464.)>994 then OCCTYP(1)=na;
if R(512.)>0 ! R(513.)>0 ! R(514.)>0 ! R(515.)>0 ! R(516.)>0 then do;
if R(512.)>1 ! R(513.)>1 ! R(514.)>1 ! R(515.)>1 ! R(516.)>1 then do;
do I=512. to 516.;
    if R(I)=1 then R(I)=-3; end;
    if DO4WKS(1)<2 then DO4WKS(1)=10; end;
    if (R(512.)=1 ! R(513.)=1 ! R(514.)=1 ! R(515.)=1 ! R(516.)=1) & DO4WKS(1)^=1 then
        DO4WKS(1)=1; end;
else DO4WKS(1)=na;
if INDYTP(1)^=na ! EMPTYP(1)^=na ! OCCTYP(1)^=na
    then EMPLOY(1)=1;          else EMPLOY(1)=0;
if R(433.)=1 then MILITARY(1)=1;    else MILITARY(1)=na;
WEIGHT(1)=R(2161.);

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Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1980 VARIABLES */

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DOING(2)=R(2604.);
ANYWK(2)=R(2605.);
HRSWK(2)=R(2606.);
HRANGE(2)=R(2607.);
HRS35(2)=R(2608.);
REAS35(2)=R(2609.);
OFFWRK(2)=R(2611.);
OTIME(2)=R(2617.);
ABSENT(2)=R(2622.);
WHYOFF(2)=R(2623.);
SALARY(2)=R(2629.);
WORK35(2)=R(2630.);
LOOK(2)=R(2681.);
DO4WKS(2)=na;
    if R(2682.)=1 then DO4WKS(2)=1;
    else if R(2684.)>0 then DO4WKS(2)=3;
    else if R(2686.)>0 then DO4WKS(2)=5;
    else if R(2688.)>0 then DO4WKS(2)=7;
    else if R(2690.)>0 then DO4WKS(2)=9;
    else if R(2683.)>0 then DO4WKS(2)=2;
    else if R(2685.)>0 then DO4WKS(2)=4;
    else if R(2687.)>0 then DO4WKS(2)=6;
    else if R(2689.)>0 then DO4WKS(2)=8;
WHYLK(2)=R(2691.);
WEEKS(2)=R(2627.);
WKTIME(2)=R(2628.);
WHYNOT(2)=R(2696.);
INDTYP(2)=R(2633.);
EMPTY(2)=R(2635.);
OCCTYP(2)=R(2634.);
if R(2634.)<0 ! R(2634.)>994 then OCCTYP(2)=na;
if R(2682.)>0 ! R(2683.)>0 ! R(2684.)>0 ! R(2685.)>0 ! R(2686.)>0 ! R(2687.)>0 ! R(2688.)>0 !
    R(2689.)>0 ! R(2690.)>0 then do;
    if R(2682.)>1 ! R(2683.)>1 ! R(2684.)>1 ! R(2685.)>1 ! R(2686.)>1 ! R(2687.)>1 ! R(2688.)>1 !
        R(2689.)>1 ! R(2690.)>1 then do;
        if R(2682.)=1 then R(2682.)=-3;
        if DO4WKS(2)<2 then DO4WKS(2)=10;
        end;
        if R(2682.)=1 & DO4WKS(2)^=1 then DO4WKS(2)=1;
    end;
    else DO4WKS(2)=na;
if INDTYP(2)^=na ! EMPTY(2)^=na ! OCCTYP(2)^=na
    then EMPLOY(2)=1;
if R(2624.)<1 ! R(2624.)>2 then NEWJOB(2)=na;
WEIGHT(2)=R(4052.);
if R(2603.)=1 then MILITARY(2)=1;
if R(2604.)<1 ! R(2604.)>7 then DOING(2)=na;
if R(2605.)<0 ! R(2605.)>1 then ANYWK(2)=na;
if R(2606.)<1 ! R(2606.)>96 then HRSWK(2)=na;
if R(2614.)>0 then HRSWK(2)=R(2614.);
if R(2620.)>0 then HRSWK(2)=R(2640.);
if R(2607.)<1 ! R(2607.)>3 then HRANGE(2)=na;
if R(2608.)<0 ! R(2608.)>1 then HRS35(2)=na;
if R(2609.)<1 ! R(2609.)>19 then REAS35(2)=na;
if R(2610.)>0 then REAS(2)=R(2610.);
if R(2615.)=1 then HRANGE(2)=R(2615.);
if R(2616.)>0 then REAS35(2)=R(2616.);
if R(2611.)<0 ! R(2611.)>1 then OFFWRK(2)=na;
if R(2617.)<0 ! R(2617.)>1 then OTIME(2)=na;
if R(2622.)<0 ! R(2622.)>1 then ABSENT(2)=na;
if R(2623.)<1 ! R(2623.)>9 then WHYOFF(2)=na;
if R(2629.)<0 ! R(2629.)>3 then SALARY(2)=na;
if R(2630.)<0 ! R(2630.)>1 then WORK35(2)=na;
if R(2681.)<0 ! R(2681.)>1 then LOOK(2)=na;
if R(2691.)<1 ! R(2691.)>11 then WHYLK(2)=na;
if R(2627.)<1 ! R(2627.)>96 then WEEKS(2)=na;
if R(2693.)>0 then WEEKS(2)=R(2693.);
if R(2697.)>0 then WEEKS(2)=R(2697.);
if R(2628.)<1 ! R(2628.)>2 then WKTIME(2)=na;
if R(2694.)>0 then WKTIME(2)=R(2694.);
if R(2698.)>0 then WKTIME(2)=R(2698.);
if R(2696.)<1 ! R(2696.)>5 then WHYNOT(2)=na;
if R(2695.)=0 then WHYNOT(2)=R(2695.);
if R(2699.)=0 then WHYNOT(2)=R(2699.);
if R(2700.)>0 then WHYNOT(2)=R(2700.);
if R(2633.)<0 ! R(2633.)>998 then INDTYP(2)=na;
if R(2635.)<0 ! R(2635.)>4 then EMPTY(2)=na;
else EMPLOY(2)=0;
else NEWJOB(2)=R(2624.);
else MILITARY(2)=na;

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Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1981 VARIABLES */

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if R(4434.)<1 then DOING(3)=na;
if R(4435.)<0 then ANYWK(3)=na;
if R(4436.)<1 then HRSWK(3)=na;
if R(4444.)>0 then HRSWK(3)=R(4444.);
if R(4450.)>0 then HRSWK(3)=R(4450.);
if R(4452.)<0 then ABSENT(3)=na;
if R(4453.)<1 then WHYOFF(3)=na;
if R(4495.)<0 then LOOK(3)=na;
DO4WKS(3)=na;
if R(4496.)=1 then DO4WKS(3)=1;
if R(4497.)>0 ! R(4498.)>0 ! R(4499.)>0 ! R(4500.)>0 ! R(4501.)>0 ! R(4502.)>0 ! R(4503.)>0 !
  R(4504.)>0 then DO4WKS(3)=2;
if R(4457.)<1 then WEEKS(3)=na;
if R(4507.)>0 then WEEKS(3)=R(4507.);
if R(4511.)>0 then WEEKS(3)=R(4511.);
if R(4510.)<1 then WHYNOT(3)=na;
if R(4509.)=0 ! R(4513.)=0 then WHYNOT(3)=0;
if R(4514.)>0 then WHYNOT(3)=R(4514.);
if R(4463.)<0 ! R(4463.)>998 then INDTYP(3)=na;
if R(4464.)<0 ! R(4464.)>994 then OCCTYP(3)=na;
if R(4466.)<0 then EMPTY(3)=na;
if R(4454.)<1 ! R(4454.)>2 then NEWJOB(3)=na;
if INDTYP(3)^=na ! OCCTYP(3)^=na ! EMPTY(3)^=na
  then EMPLOY(3)=1;
WEIGHT(3)=R(6146.);
if R(4433.)=1 then MILITARY(3)=1;
else DOING(3)=R(4434.);
else ANYWK(3)=R(4435.);
else HRSWK(3)=R(4436.);
else ABSENT(3)=R(4452.);
else WHYOFF(3)=R(4453.);
else LOOK(3)=R(4495.);
else WEEKS(3)=R(4457.);
else WHYNOT(3)=R(4510.);
else INDTYP(3)=R(4463.);
else OCCTYP(3)=R(4464.);
else EMPTY(3)=R(4466.);
else NEWJOB(3)=R(4454.);
else EMPLOY(3)=0;
else MILITARY(3)=na;

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/* 1982 VARIABLES */

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if R(6935.)<1 then DOING(4)=na;
if R(6936.)<0 then ANYWK(4)=na;
if R(6937.)<1 then HRSWK(4)=na;
if R(6945.)>0 then HRSWK(4)=R(6945.);
if R(6951.)>0 then HRSWK(4)=R(6951.);
if R(6953.)<0 then ABSENT(4)=na;
if R(6954.)<1 then WHYOFF(4)=na;
if R(6963.)<0 then LOOK(4)=na;
DO4WKS(4)=na;
if R(6964.)=1 then DO4WKS(4)=1;
if R(6965.)>0 ! R(6966.)>0 ! R(6967.)>0 ! R(6968.)>0 ! R(6969.)>0 !
  R(6970.)>0 ! R(6971.)>0 ! R(6972.)>0 then DO4WKS(4)=2;
if R(6958.)<1 then WEEKS(4)=na;
if R(6975.)>0 then WEEKS(4)=R(6975.);
if R(6979.)>0 then WEEKS(4)=R(6979.);
if R(6978.)<1 then WHYNOT(4)=na;
if R(6977.)=0 ! R(6981.)=0 then WHYNOT(4)=0;
if R(6982.)>0 then WHYNOT(4)=R(6982.);
if R(7020.)<0 ! R(7020.)>998 then INDTYP(4)=na;
if R(7021.)<0 ! R(7021.)>994 then OCCTYP(4)=na;
if R(7023.)<0 then EMPTY(4)=na;
if R(6955.)<1 ! R(6955.)>2 then NEWJOB(4)=na;
if (INDTYP(4)^=na ! OCCTYP(4)^=na ! EMPTY(4)^=na) & R(6983.)^=1 & R(7009.)^=1
  then EMPLOY(4)=1;
WEIGHT(4)=R(8967.);
if R(6934.)=1 then MILITARY(4)=1;
else DOING(4)=R(6935.);
else ANYWK(4)=R(6936.);
else HRSWK(4)=R(6937.);
else ABSENT(4)=R(6953.);
else WHYOFF(4)=R(6954.);
else LOOK(4)=R(6963.);
else WEEKS(4)=R(6958.);
else WHYNOT(4)=R(6978.);
else INDTYP(4)=R(7020.);
else OCCTYP(4)=R(7021.);
else EMPTY(4)=R(7023.);
else NEWJOB(4)=R(6955.);
else EMPLOY(4)=0;
else MILITARY(4)=na;

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Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1983 VARIABLES */

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if R(9365.)<1 then DOING(5)=na;
if R(9366.)<0 then ANYWK(5)=na;
if R(9367.)<1 then HRSWK(5)=na;
if R(9375.)>0 then HRSWK(5)=R(9375.);
if R(9381.)>0 then HRSWK(5)=R(9381.);
if R(9383.)<0 then ABSENT(5)=na;
if R(9384.)<1 then WHYOFF(5)=na;
if R(9393.)<0 then LOOK(5)=na;
DO4WKS(5)=na;
if R(9394.)=1 then DO4WKS(5)=1;
if R(9395.)>0 ! R(9396.)>0 ! R(9397.)>0 ! R(9398.)>0 ! R(9399.)>0 !
  R(9400.)>0 ! R(9401.)>0 ! R(9402.)>0 then DO4WKS(5)=2;
if R(9388.)<1 then WEEKS(5)=na;
if R(9405.)>0 then WEEKS(5)=R(9405.);
if R(9408.)>0 then WEEKS(5)=R(9408.);
if R(9407.)=0 ! R(9410.)=0 then WHYNOT(5)=0;
if R(9411.)>0 then WHYNOT(5)=R(9411.);
if R(9449.)<0 ! R(9449.)>998 then INDTYP(5)=na;
if R(9450.)<0 ! R(9450.)>994 then OCCTYP(5)=na;
if R(9454.)<0 then EMPTYP(5)=na;
if R(9385.)<1 ! R(9385.)>2 then NEWJOB(5)=na;
if (INDTYP(5)^=na ! OCCTYP(5)^=na ! EMPTYP(5)^=na) & R(9412.)^=1 & R(9439.)^=1
  then EMPLOY(5)=1;
WEIGHT(5)=R(11444.);
if R(9364.)=1 then MILITARY(5)=1;
do I=1 to 5;
  if MILITARY(I)=1 then do; ESR(I)=8; go to fin; end;
  if I=1 & R(1.)=6435 then do; ESR(I)=-3; go to fin; end;
  if WEIGHT(I)=0 then do; ESR(I)=-5; go to fin; end;
  ESR(I)=7;
  if DOING(I)^=1 then go to P6;
  if HRSWK(I)=na then go to P4;
  if HRSWK(I)>=15 ! EMPTYP(I)^=4 then ESR(I)=1;
  P4: if EMPLOY(I)=1 then ESR(I)=1;
  P6: ESR(I)=1;
  if ANYWK(I)^=1 then go to P11;
  if HRSWK(I)=na then go to P9;
  if HRSWK(I)<15 & EMPTYP(I)=4 then go to P61;
  P9: if EMPLOY(I)=0 then go to P61;
  P11: if HRSWK(I)=na then go to P15;
  if EMPLOY(I)=0 then go to P61;
  if HRSWK(I)<15 & EMPTYP(I)=4 then go to P61;
  P15: ESR(I)=7;
  if DOING(I)=2 then go to ESR237;
  if DOING(I)=3 then go to P21;
  P21: if ABSENT(I)^=1 then go to P27;
  P27: if WHYOFF(I)=na then go to P32;
  if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P29;
  if EMPLOY(I)^=0 & EMPTYP(I)^=4 then ESR(I)=2;
  P29: if WHYNOT(I)<3 then ESR(I)=3;
  P32: if DO4WKS(I)=1 then go to P20000;
  if WHYNOT(I)>2 then go to P20000;
  if WEEKS(I)=na then go to P33;
  ESR(I)=3;

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else DOING(5)=R(9365.);
else ANYWK(5)=R(9366.);
else HRSWK(5)=R(9367.);
else ABSENT(5)=R(9383.);
else WHYOFF(5)=R(9384.);
else LOOK(5)=R(9393.);
else WEEKS(5)=R(9388.);
else INDTYP(5)=R(9449.);
else OCCTYP(5)=R(9450.);
else EMPTYP(5)=R(9454.);
else NEWJOB(5)=R(9385.);
else EMPLOY(5)=0;
else MILITARY(5)=na;
go to P20000;
go to P20000;
go to P62;
go to P62;
go to P62;
go to P37;
go to ESR237;
go to P20000;
go to P20000;
go to P20000;

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Appendix 1: Employment Status Recode (ESR) Variable Creation

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P33: if DO4WKS(I)>1 ! WHYNOT(I)^=na then ESR(I)=3;           go to P20000;
P37: ESR(I)=2;
if ABSENT(I)^=1 then go to P43;
if WHYOFF(I)=na then go to P41;
if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P39;
if EMPTYP(I)=4 then go to P61;                               go to P62;
P39: if WHYNOT(I)>2 then go to P61;                           go to P62;
ESR(I)=3;                                                    go to P62;
P41: if EMPLOY(I)=0 ! EMPTYP(I)=4 then go to P61;           go to P62;
P43: if WHYOFF(I)=na then go to P48;
if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P45;
if EMPLOY(I)=0 ! EMPTYP(I)=4 then go to P61;               go to P62;
P45: if WEEKS(I)=na & WHYNOT(I)=na then go to P61;
if WHYNOT(I)>2 then go to P61;                               go to P62;
ESR(I)=3;                                                    go to P62;
P48: ESR(I)=3;
if LOOK(I)^=1 then go to P53;
if DO4WKS(I)=1 then go to P61;
if WHYNOT(I)>2 then go to P61;
if DO4WKS(I)^=na ! WEEKS(I)^=na then go to P62;
if WHYNOT(I)=na then go to P61;                             go to P62;
P53: if DO4WKS(I)=1 then go to P61;
if WHYNOT(I)>2 then go to P61;
if DO4WKS(I)=na then go to P56;
if WEEKS(I)^=na ! WHYNOT(I)^=na then go to P62;           go to P61;
P56: if WEEKS(I)=na ! WHYNOT(I)=na then go to P61;         go to P62;
P61: if DOING(I)<4 ! DOING(I)>6 then go to P610;
ESR(I)=DOING(I);                                           go to P20000;
P610: ESR(I)=7;                                             go to P20000;
P62: if DOING(I)=6 then DOING(I)=7;
P20000: go to fin;
ESR237: if WHYOFF(I)=na then go to P5019;
if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P5017;
if EMPTYP(I)^=-4 then ESR(I)=2;                             go to fin;
P5017: if WHYNOT(I)>2 then go to fin;
ESR(I)=3;                                                  go to fin;
P5019: if EMPLOY(I)=1 & EMPTYP(I)^=-4 then ESR(I)=2;
fin.;

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/* COLLAPSED EMPLOYMENT STATUS RECODE */

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if ESR(I)=-5 then ESRC(I)=-5;
else if ESR(I)=1 | ESR(I)=2 then ESRC(I)=1;
else if ESR(I)=3 then ESRC(I)=2;
else if ESR(I)>=4 & ESR(I)<=7 then ESRC(I)=3;
else if ESR(I)=8 then ESRC(I)=4;
else ESRC(I)=ESR(I);

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end;

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R(2149.)=ESR(1);      R(4063.)=ESR(2);      R(6188.)=ESR(3);
R(8985.)=ESR(4);      R(11447.)=ESR(5);     R(2149.01)=ESRC(1);
R(4063.01)=ESRC(2);   R(6188.01)=ESRC(3);   R(8985.01)=ESRC(4);
R(11447.01)=ESRC(5);

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Appendix 1: Employment Status Recode (ESR) Variable Creation

/*1984-93*/ DCL 1 ESR (6:14),

5 ABSENT,	5 INDTYP,
5 ANYWK,	5 LOOK,
5 DO4WKS,	5 MILITARY,
5 DOING,	5 NEWJOB,
5 EMPLOY,	5 OCCTYP,
5 EMPTYP,	5 WEEKS,
5 ESR,	5 WEIGHT,
5 ESRC,	5 WHYNOT,
5 HRSWK,	5 WHYOFF;

/* 1984 VARIABLES */

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ESR84=-4;
if R(12468.)<1 then DOING(6)=na;
if R(12469.)<0 then ANYWK(6)=na;
if R(12470.)<1 then HRSWK(6)=na;
if R(12478.)>0 then HRSWK(6)=R(12478.);
if R(12484.)>0 then HRSWK(6)=R(12484.);
if R(12486.)<0 then ABSENT(6)=na;
if R(12487.)<1 then WHYOFF(6)=na;
if R(12496.)<0 then LOOK(6)=na;
DO4WKS(6)=na;
if R(12497.)=1 then DO4WKS(6)=1;
if R(12498.)>0 ! R(12499.)>0 ! R(12500.)>0 ! R(12501.)>0 ! R(12502.)>0 ! R(12503.)>0 ! R(12504.)>0 !
  R(12505.)>0 then DO4WKS(6)=2;
if R(12491.)<1 then WEEKS(6)=na;
if R(12508.)>0 then WEEKS(6)=R(12508.);
if R(12512.)>0 then WEEKS(6)=R(12512.);
if R(12510.)=0 ! R(12514.)=0 then WHYNOT(6)=0;
if R(12515.)>0 then WHYNOT(6)=R(12515.);
if R(12553.)<0 ! R(12553.)>998 then INDTYP(6)=na;
if R(12554.)<0 ! R(12554.)>994 then OCCTYP(6)=na;
if R(12558.)<0 then EMPTYP(6)=na;
if R(12488.)<1 ! R(12488.)>2 then NEWJOB(6)=na;
if (INDTYP(6)^=na ! OCCTYP(6)^=na ! EMPTYP(6)^=na) & R(12516.)^=1 & R(12543.)^=1
  then EMPLOY(6)=1;
WEIGHT(6)=R(15196.);
if R(12467.)=1 then MILITARY(6)=1;
else DOING(6)=R(12468.);
else ANYWK(6)=R(12469.);
else HRSWK(6)=R(12470.);
else ABSENT(6)=R(12486.);
else WHYOFF(6)=R(12487.);
else LOOK(6)=R(12496.);
else WEEKS(6)=R(12491.);
else INDTYP(6)=R(12553.);
else OCCTYP(6)=R(12554.);
else EMPTYP(6)=R(12558.);
else NEWJOB(6)=R(12488.);
else EMPLOY(6)=0;
else MILITARY(6)=na;

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1985 VARIABLES */

```

if R(16420.)<1 then DOING(7)=na;
if R(16421.)<0 then ANYWK(7)=na;
if R(16422.)<1 then HRSWK(7)=na;
if R(16430.)>0 then HRSWK(7)=R(16430.);
if R(16436.)>0 then HRSWK(7)=R(16436.);
if R(16438.)<0 then ABSENT(7)=na;
if R(16439.)<1 then WHYOFF(7)=na;
if R(16448.)<0 then LOOK(7)=na;
DO4WKS(7)=na;
if R(16449.)=1 then DO4WKS(7)=1;
if R(16450.)>0 ! R(16451.)>0 ! R(16452.)>0 ! R(16453.)>0 ! R(16454.)>0 ! R(16455.)>0 ! R(16456.)>0 !
R(16457.)>0 then DO4WKS(7)=2;
if R(16443.)<1 then WEEKS(7)=na;
if R(16460.)>0 then WEEKS(7)=R(16460.);
if R(16464.)>0 then WEEKS(7)=R(16464.);
if R(16462.)=0 ! R(16466.)=0 then WHYNOT(7)=0;
if R(16467.)>0 then WHYNOT(7)=R(16467.);
if R(16501.)<0 ! R(16501.)>998 then INDTYP(7)=na;
if R(16502.)<0 ! R(16502.)>994 then OCCTYP(7)=na;
if R(16506.)<0 then EMPTYP(7)=na;
if R(16440.)<1 ! R(16440.)>2 then NEWJOB(7)=na;
if (INDTYP(7)^=na ! OCCTYP(7)^=na ! EMPTYP(7)^=na) & R(16468.)^=1 & R(16493.)^=1
then EMPLOY(7)=1;
WEIGHT(7)=R(18902.);
if R(16419.)=1 then MILITARY(7)=1;
else DOING(7)=R(16420.);
else ANYWK(7)=R(16421.);
else HRSWK(7)=R(16422.);
else ABSENT(7)=R(16438.);
else WHYOFF(7)=R(16439.);
else LOOK(7)=R(16448.);
else WEEKS(7)=R(16443.);
else INDTYP(7)=R(16501.);
else OCCTYP(7)=R(16502.);
else EMPTYP(7)=R(16506.);
else NEWJOB(7)=R(16440.);
else EMPLOY(7)=0;
else MILITARY(7)=na;

```

/* 1986 VARIABLES */

```

if R(19146.)<1 then DOING(8)=na;
if R(19147.)<0 then ANYWK(8)=na;
if R(19148.)<1 then HRSWK(8)=na;
if R(19156.)>0 then HRSWK(8)=R(19156.);
if R(19162.)>0 then HRSWK(8)=R(19162.);
if R(19164.)<0 then ABSENT(8)=na;
if R(19165.)<1 then WHYOFF(8)=na;
if R(19174.)<0 then LOOK(8)=na;
DO4WKS(8)=na;
if R(19175.)=1 then DO4WKS(8)=1;
if R(19176.)>0 ! R(19177.)>0 ! R(19178.)>0 ! R(19179.)>0 ! R(19180.)>0 ! R(19181.)>0 ! R(19182.)>0 !
R(19183.)>0 then DO4WKS(8)=2;
if R(19169.)<1 then WEEKS(8)=na;
if R(19186.)>0 then WEEKS(8)=R(19186.);
if R(19190.)>0 then WEEKS(8)=R(19190.);
if R(19188.)=0 ! R(19192.)=0 then WHYNOT(8)=0;
if R(19193.)>0 then WHYNOT(8)=R(19193.);
if R(19227.)<0 ! R(19227.)>998 then INDTYP(8)=na;
if R(19228.)<0 ! R(19228.)>994 then OCCTYP(8)=na;
if R(19232.)<0 then EMPTYP(8)=na;
if R(19166.)<1 ! R(19166.)>2 then NEWJOB(8)=na;
if (INDTYP(8)^=na ! OCCTYP(8)^=na ! EMPTYP(8)^=na) & R(19194.)^=1 & R(19219.)^=1
then EMPLOY(8)=1;
WEIGHT(8)=R(22573.);
MILCUR=R(19115.);
if R(19141.)>=0 then MILCUR=R(19141.); if MILCUR=1 then MILITARY(8)=1; else MILITARY(8)=na;
else DOING(8)=R(19146.);
else ANYWK(8)=R(19147.);
else HRSWK(8)=R(19148.);
else ABSENT(8)=R(19164.);
else WHYOFF(8)=R(19165.);
else LOOK(8)=R(19174.);
else WEEKS(8)=R(19169.);
else INDTYP(8)=R(19227.);
else OCCTYP(8)=R(19228.);
else EMPTYP(8)=R(19232.);
else NEWJOB(8)=R(19166.);
else EMPLOY(8)=0;

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1987 VARIABLES */

```

if R(23107.)<1 then DOING(9)=na;
if R(23108.)<0 then ANYWK(9)=na;
if R(23109.)<1 then HRSWK(9)=na;
if R(23117.)>0 then HRSWK(9)=R(23117.);
if R(23123.)>0 then HRSWK(9)=R(23123.);
if R(23125.)<0 then ABSENT(9)=na;
if R(23126.)<1 then WHYOFF(9)=na;
if R(23135.)<0 then LOOK(9)=na;
DO4WKS(9)=na;
if R(23137.)>0 ! R(23138.)>0 ! R(23139.)>0 ! R(23140.)>0 ! R(23141.)>0 ! R(23142.)>0 ! R(23143.)>0 !
R(23144.)>0 then DO4WKS(9)=2;
if R(23130.)<1 then WEEKS(9)=na;
if R(23147.)>0 then WEEKS(9)=R(23147.);
if R(23151.)>0 then WEEKS(9)=R(23151.);
if R(23149.)=0 ! R(23153.)=0 then WHYNOT(9)=0;
else if R(23154.)>0 then WHYNOT(9) =R(23154.);
else if R(23150.)>0 then WHYNOT(9)=R(23150.);
if R(23175.)<0 ! R(23175.)>998 then INDTYP(9)=na;
if R(23176.)<0 ! R(23176.)>994 then OCCTYP(9)=na;
if R(23180.)<0 then EMPTYP(9)=na;
if R(23127.)<1 ! R(23127.)>2 then NEWJOB(9)=na;
if (INDTYP(9)^=na ! OCCTYP(9)^=na ! EMPTYP(9)^=na) & R(23155.)^=1 & R(23174.)^=1
then EMPLOY(9)=1;
WEIGHT(9)=R(24445.);
MILCUR=R(23075.);
if R(23102.)>=0 then MILCUR=R(23102.); if MILCUR=1 then MILITARY(9)=1; else
MILITARY(9)=na;
else DOING(9)=R(23107.);
else ANYWK(9)=R(23108.);
else HRSWK(9)=R(23109.);
else ABSENT(9)=R(23125.);
else WHYOFF(9)=R(23126.);
else LOOK(9)=R(23135.);
if R(23136.)=1 then DO4WKS(9)=1;
else WEEKS(9)=R(23130.);
else WHYNOT(9)=na;
else INDTYP(9)=R(23175.);
else OCCTYP(9)=R(23176.);
else EMPTYP(9)=R(23180.);
else NEWJOB(9)=R(23127.);
else EMPLOY(9)=0;

```

/* 1988 VARIABLES */

```

if R(25186.)<1 then DOING(10)=na;
if R(25187.)<0 then ANYWK(10)=na;
if R(25188.)<1 then HRSWK(10)=na;
if R(25196.)>0 then HRSWK(10)=R(25196.);
if R(25202.)>0 then HRSWK(10)=R(25202.);
if R(25204.)<0 then ABSENT(10)=na;
if R(25205.)<1 then WHYOFF(10)=na;
if R(25214.)<0 then LOOK(10)=na;
DO4WKS(10)=na;
if R(25216.)>0 ! R(25217.)>0 ! R(25218.)>0 ! R(25219.)>0 ! R(25220.)>0 ! R(25221.)>0 ! R(25222.)A>0
! R(25223.)>0 then DO4WKS(10)=2;
if R(25209.)<1 then WEEKS(10)=na;
if R(25226.)>0 then WEEKS(10)=R(25226.);
if R(25230.)>0 then WEEKS(10)=R(25230.);
if R(25228.)=0 ! R(25232.)=0 then WHYNOT(10)=0;
else if R(25233.)>0 then WHYNOT(10)=R(25233.);
else if R(25229.)>0 then WHYNOT(10)=R(25229.);
if R(25253.)<0 ! R(25253.)>998 then INDTYP(10)=na;
if R(25254.)<0 ! R(25254.)>994 then OCCTYP(10)=na;
if R(25258.)<0 then EMPTYP(10)=na;
if R(25206.)<1 ! R(25206.)>2 then NEWJOB(10)=na;
if (INDTYP(10)^=na ! OCCTYP(10)^=na ! EMPTYP(10)^=na) & R(25234.)^=1 & R(25252.)^=1
then EMPLOY(10)=1;
WEIGHT(10)=R(28700.);
else DOING(10)=R(25186.);
else ANYWK(10)=R(25187.);
else HRSWK(10)=R(25188.);
else ABSENT(10)=R(25204.);
else WHYOFF(10)=R(25205.);
else LOOK(10)=R(25214.);
if R(25215.)=1 then DO4WKS(10)=1;
else WEEKS(10)=R(25209.);
else WHYNOT(10)=na;
else INDTYP(10)=R(25253.);
else OCCTYP(10)=R(25254.);
else EMPTYP(10)=R(25258.);
else NEWJOB(10)=R(25206.);
else EMPLOY(10)=0;

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
MILCUR=R(25154.);  
if R(25181.)>=0 then MILCUR=R(25181.); if MILCUR=1 then MILITARY(10)=1; else  
MILITARY(10)=na;
```

Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1989 VARIABLES */

```

if R(29175.)<1 then DOING(11)=na;
if R(29176.)<0 then ANYWK(11)=na;
if R(29177.)<1 then HRSWK(11)=na;
if R(29185.)>0 then HRSWK(11)=R(29185.);
if R(29191.)>0 then HRSWK(11)=R(29191.);
if R(29193.)<0 then ABSENT(11)=na;
if R(29194.)<1 then WHYOFF(11)=na;
if R(29203.)<0 then LOOK(11)=na;
DO4WKS(11)=na;
if R(29205.)>0 ! R(29206.)>0 ! R(29207.)>0 ! R(29208.)>0 ! R(29209.)>0 ! R(29210.)>0 ! R(29211.)>0 !
  R(29212.)>0 then DO4WKS(11)=2;
if R(29198.)<1 then WEEKS(11)=na;
if R(29215.)>0 then WEEKS(11)=R(29215.);
if R(29219.)>0 then WEEKS(11)=R(29219.);
if R(29217.)=0 ! R(29221.)=0 then WHYNOT(11)=0;
else if R(29222.)>0 then WHYNOT(11) =R(29222.);
else if R(29218.)>0 then WHYNOT(11)=R(29218.);
if R(29243.)<0 ! R(29243.)>998 then INDTYP(11)=na;
if R(29244.)<0 ! R(29244.)>994 then OCCTYP(11)=na;
if R(29248.)<0 then EMPTYP(11)=na;
if R(29195.)<1 ! R(29195.)>2 then NEWJOB(11)=na;
if (INDTYP(11)^=na ! OCCTYP(11)^=na ! EMPTYP(11)^=na) & R(29223.)^=1 & R(29242.)^=1
  then EMPLOY(11)=1;
WEIGHT(11)=R(30738.);
MILCUR=R(29143.);
if R(29170.)>=0 then MILCUR=R(29170.); if MILCUR=1 then MILITARY(11)=1; else
MILITARY(11)=na;
else DOING(11)=R(29175.);
else ANYWK(11)=R(29176.);
else HRSWK(11)=R(29177.);
else ABSENT(11)=R(29193.);
else WHYOFF(11)=R(29194.);
else LOOK(11)=R(29203.);
if R(29204.)=1 then DO4WKS(11)=1;
else WEEKS(11)=R(29198.);
else WHYNOT(11)=na;
else INDTYP(11)=R(29243.);
else OCCTYP(11)=R(29244.);
else EMPTYP(11)=R(29248.);
else NEWJOB(11)=R(29195.);
else EMPLOY(11)=0;

```

/* 1990 VARIABLES */

```

WEIGHT(12)=R(34002.);
if R(31197.)<1 then DOING(12)=na;
if R(31198.)<0 then ANYWK(12)=na;
if R(31199.)<1 then HRSWK(12)=na;
if R(31207.)>0 then HRSWK(12)=R(31207.);
if R(31213.)>0 then HRSWK(12)=R(31213.);
if R(31220.)<0 then ABSENT(12)=na;
if R(31221.)<1 then WHYOFF(12)=na;
if R(31230.)<0 then LOOK(12)=na;
DO4WKS(12)=na;
if R(31232.)>0 ! R(31233.)>0 ! R(31234.)>0 ! R(31235.)>0 ! R(31236.)>0 ! R(31237.)>0 ! R(31238.)>0 !
  R(31239.)>0 then DO4WKS(12)=2;
if R(31225.)<1 then WEEKS(12)=na;
if R(31242.)>0 then WEEKS(12)=R(31242.);
if R(31246.)>0 then WEEKS(12)=R(31246.);
if R(31244.)=0 ! R(31248.)=0 then WHYNOT(12)=0;
else if R(31249.)>0 then WHYNOT(12) =R(31249.);
else if R(31245.)>0 then WHYNOT(12)=R(31245.);
if R(31270.)<0 ! R(31270.)>998 then INDTYP(12)=na;
if R(31271.)<0 ! R(31271.)>994 then OCCTYP(12)=na;
if R(31275.)<0 then EMPTYP(12)=na;
if R(31222.)<1 ! R(31222.)>2 then NEWJOB(12)=na;
if (INDTYP(12)^=na ! OCCTYP(12)^=na ! EMPTYP(12)^=na) & R(31250.)^=1 & R(31271.)^=1
  then EMPLOY(12)=1;
else DOING(12)=R(31197.);
else ANYWK(12)=R(31198.);
else HRSWK(12)=R(31199.);
else ABSENT(12)=R(31220.);
else WHYOFF(12)=R(31221.);
else LOOK(12)=R(31230.);
if R(31231.)=1 then DO4WKS(12)=1;
else WEEKS(12)=R(31225.);
else WHYNOT(12)=na;
else INDTYP(12)=R(31270.);
else OCCTYP(12)=R(31271.);
else EMPTYP(12)=R(31275.);
else NEWJOB(12)=R(31222.);
else EMPLOY(12)=0;

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
MILCUR=R(31165.);  
if R(31192.)>=0 then MILCUR=R(31192.); if MILCUR=1 then MILITARY(12)=1; else  
MILITARY(12)=na;
```

Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1991 VARIABLES */

```

WEIGHT(13)=R(36558.);
if R(35154.)<1 then DOING(13)=na;
if R(35155.)<0 then ANYWK(13)=na;
if R(35156.)<1 then HRSWK(13)=na;
if R(35164.)>0 then HRSWK(13)=R(35164.);
if R(35170.)>0 then HRSWK(13)=R(35170.);
if R(35177.)<0 then ABSENT(13)=na;
if R(35178.)<1 then WHYOFF(13)=na;
if R(35187.)<0 then LOOK(13)=na;
DO4WKS(13)=na;
if R(35189.)>0 ! R(35190.)>0 ! R(35191.)>0 ! R(35192.)>0 ! R(35193.)>0 ! R(35194.)>0 ! R(35195.)>0 !
  R(35196.)>0 then DO4WKS(13)=2;
if R(35182.)<1 then WEEKS(13)=na;
if R(35199.)>0 then WEEKS(13)=R(35199.);
if R(35203.)>0 then WEEKS(13)=R(35203.);
if R(35201.)=0 ! R(35205.)=0 then WHYNOT(13)=0;
else if R(35206.)>0 then WHYNOT(13) =R(35206.);
else if R(35202.)>0 then WHYNOT(13)=R(35202.);
if R(35227.)<0 ! R(35227.)>998 then INDTYP(13)=na;
if R(35228.)<0 ! R(35228.)>994 then OCCTYP(13)=na;
if R(35232.)<0 then EMPTYP(13)=na;
if R(35179.)<1 ! R(35179.)>2 then NEWJOB(13)=na;
if (INDTYP(13)^=na ! OCCTYP(13)^=na ! EMPTYP(13)^=na) & R(35207.)^=1 & R(35228.)^=1
  then EMPLOY(13)=1;
MILCUR=R(35119.);
if R(35149.)>=0 then MILCUR=R(35149.); if MILCUR=1 then MILITARY(13)=1; else
MILITARY(13)=na;
else DOING(13)=R(35154.);
else ANYWK(13)=R(35155.);
else HRSWK(13)=R(35156.);
else ABSENT(13)=R(35177.);
else WHYOFF(13)=R(35178.);
else LOOK(13)=R(35187.);
if R(35188.)=1 then DO4WKS(13)=1;
else WEEKS(13)=R(35182.);
else WHYNOT(13)=na;
else INDTYP(13)=R(35227.);
else OCCTYP(13)=R(35228.);
else EMPTYP(13)=R(35232.);
else NEWJOB(13)=R(35179.);
else EMPLOY(13)=0;

```

/* 1992 VARIABLES */

```

WEIGHT(14)=R(40063.);
if R(37203.)<1 then DOING(14)=na;
if R(37204.)<0 then ANYWK(14)=na;
if R(37205.)<1 then HRSWK(14)=na;
if R(37213.)>0 then HRSWK(14)=R(37213.);
if R(37219.)>0 then HRSWK(14)=R(37219.);
if R(37226.)<0 then ABSENT(14)=na;
if R(37227.)<1 then WHYOFF(14)=na;
if R(37236.)<0 then LOOK(14)=na;
DO4WKS(14)=na;
if R(37238.)>0 ! R(37239.)>0 ! R(37240.)>0 ! R(37241.)>0 ! R(37242.)>0 ! R(37243.)>0 ! R(37244.)>0 !
  R(37245.)>0 then DO4WKS(14)=2;
if R(37231.)<1 then WEEKS(14)=na;
if R(37248.)>0 then WEEKS(14)=R(37248.);
if R(37252.)>0 then WEEKS(14)=R(37252.);
if R(37250.)=0 ! R(37254.)=0 then WHYNOT(14)=0;
else if R(37255.)>0 then WHYNOT(14) =R(37255.);
else if R(37251.)>0 then WHYNOT(14)=R(37251.);
if R(37277.)<0 ! R(37277.)>998 then INDTYP(14)=na;
if R(37278.)<0 ! R(37278.)>994 then OCCTYP(14)=na;
if R(37282.)<0 then EMPTYP(14)=na;
if R(37228.)<1 ! R(37228.)>2 then NEWJOB(14)=na;
if (INDTYP(14)^=na ! OCCTYP(14)^=na ! EMPTYP(14)^=na) & R(37256.)^=1 & R(37278.)^=1
  then EMPLOY(14)=1;
else DOING(14)=R(37203.);
else ANYWK(14)=R(37204.);
else HRSWK(14)=R(37205.);
else ABSENT(14)=R(37226.);
else WHYOFF(14)=R(37227.);
else LOOK(14)=R(37236.);
if R(37237.)=1 then DO4WKS(14)=1;
else WEEKS(14)=R(37231.);
else WHYNOT(14)=na;
else INDTYP(14)=R(37277.);
else OCCTYP(14)=R(37278.);
else EMPTYP(14)=R(37282.);
else NEWJOB(14)=R(37228.);
else EMPLOY(14)=0;

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
MILCUR=R(37168.);  
if R(37198.)>=0 then MILCUR=R(37198.); if MILCUR=1 then MILITARY(14)=1; else  
MILITARY(14)=na;
```


Appendix 1: Employment Status Recode (ESR) Variable Creation

/* 1993 VARIABLES */

```

/* if KEY0002 = -4 then */
  WEIGHT(15)=1; /* else WEIGHT(15)=0; */
  ABSENT(15)=-4;      ANYWK(15)=-4;      DO4WKS(15)=-4;
  DOING(15)=-4;      EMPLOY(15)=-4;      EMPTYP(15)=-4;
  ESR(15)=-4;      ESR(15)=-4;      HRSWK(15)=-4;
  INDTYP(15)=-4;    LOOK(15)=-4;      MILITARY(15)=-4;
  NEWJOB(15)=-4;    OCCTYP(15)=-4;    WEEKS(15)=-4;
  WHYNOT(15)=-4;    WHYOFF(15)=-4;
  if R(41718.)<1 then DOING(15)=na;      else DOING(15)=R(41718.);
  if R(41719.)<0 then ANYWK(15)=na;      else ANYWK(15)=R(41719.);
  if R(41720.)<1 then HRSWK(15)=na;      else HRSWK(15)=R(41720.);
  if R(41727.)>0 then HRSWK(15)=R(41727.);
  if R(41732.)>0 then HRSWK(15)=R(41732.);
  if R(41741.)<0 then ABSENT(15)=na;      else ABSENT(15)=R(41741.);
  if R(41742.)<1 then WHYOFF(15)=na;      else WHYOFF(15)=R(41742.);
  if R(41751.)<0 then LOOK(15)=na;      else LOOK(15)=R(41751.);
  DO4WKS(15)=na;
  if R(41752.)=1 then DO4WKS(15)=1;
  if R(41763.)>0 then DO4WKS(15)=2;
  if R(41746.)<1 then WEEKS(15)=na;      else WEEKS(15)=R(41746.);
  if R(41766.)>0 then WEEKS(15)=R(41766.);
  if R(41770.)>0 then WEEKS(15)=R(41770.);
  if R(41768.)=0 ! R(41772.)=0 then WHYNOT(15)=0;
  else if R(41773.)>0 then WHYNOT(15)=R(41773.);
  else if R(41769.)>0 then WHYNOT(15)=R(41769.);      else WHYNOT(15)=na;
  if R(41820.)<0 ! R(41820.)>998 then INDTYP(15)=na;      else INDTYP(15)=R(41820.);
  if R(41821.)<0 ! R(41821.)>994 then OCCTYP(15)=na;      else OCCTYP(15)=R(41821.);
  if R(41823.)<0 then EMPTYP(15)=na;      else EMPTYP(15)=R(41823.);
  if R(41743.)<1 ! R(41743.)>2 then NEWJOB(15)=na;      else NEWJOB(15)=R(41743.);
  if (INDTYP(15)^=na ! OCCTYP(15)^=na ! EMPTYP(15)^=na) & R(41774.)^=1 & R(41821.)^=1
    then EMPLOY(15)=1;      else EMPLOY(15)=0;
  MILCUR=R(41449.);
  if R(41448.)>=0 then MILCUR=R(41448.);
  if R(41460.)>=0 then MILCUR=R(41460.);
  if MILCUR=1 then MILITARY(15)=1;      else MILITARY(15)=na;
  do I=1 to 15;
    if MILITARY(I)=1 then do; ESR(I)=8; go to fin; end;
    if WEIGHT(I)=0 then do; ESR(I)=-5; go to fin; end;
    ESR(I)=7;
    if DOING(I)^=1 then go to P6;
    if HRSWK(I)=na then go to P4;
    if HRSWK(I)>=15 ! EMPTYP(I)^=4 then ESR(I)=1;      go to P20000;
    P4: if EMPLOY(I)=1 then ESR(I)=1;      go to P20000;
    P6: ESR(I)=1;
    if ANYWK(I)^=1 then go to P11;
    if HRSWK(I)=na then go to P9;
    if HRSWK(I)<15 & EMPTYP(I)=4 then go to P61;      go to P62;
    P9: if EMPLOY(I)=0 then go to P61;      go to P62;
    P11: if HRSWK(I)=na then go to P15;
    if EMPLOY(I)=0 then go to P61;
    if HRSWK(I)<15 & EMPTYP(I)=4 then go to P61;      go to P62;
    P15: ESR(I)=7;
    if DOING(I)=2 then go to ESR237;
    if DOING(I)=3 then go to P21;      go to P37;

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```

P21: if ABSENT(I)^=1 then go to P27;                                go to ESR237;
P27: if WHYOFF(I)=na then go to P32;
if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P29;
if EMPLOY(I)^=0 & EMPTYP(I)^=4 then ESR(I)=2;                    go to P20000;
P29: if WHYNOT(I)<3 then ESR(I)=3;                                go to P20000;
P32: if DO4WKS(I)=1 then go to P20000;
if WHYNOT(I)>2 then go to P20000;
if WEEKS(I)=na then go to P33;
ESR(I)=3;                                                         go to P20000;
P33: if DO4WKS(I)>1 ! WHYNOT(I)^=na then ESR(I)=3;              go to P20000;
P37: ESR(I)=2;
if ABSENT(I)^=1 then go to P43;
if WHYOFF(I)=na then go to P41;
if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P39;
if EMPTYP(I)=4 then go to P61;                                    go to P62;
P39: if WHYNOT(I)>2 then go to P61;                                go to P62;
ESR(I)=3;                                                         go to P62;
P41: if EMPLOY(I)=0 ! EMPTYP(I)=4 then go to P61;                go to P62;
P43: if WHYOFF(I)=na then go to P48;
if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P45;
if EMPLOY(I)=0 ! EMPTYP(I)=4 then go to P61;                    go to P62;
P45: if WEEKS(I)=na & WHYNOT(I)=na then go to P61;
if WHYNOT(I)>2 then go to P61;
ESR(I)=3;                                                         go to P62;
P48: ESR(I)=3;
if LOOK(I)^=1 then go to P53;
if DO4WKS(I)=1 then go to P61;
if WHYNOT(I)>2 then go to P61;
if DO4WKS(I)^=na ! WEEKS(I)^=na then go to P62;
if WHYNOT(I)=na then go to P61;                                  go to P62;
P53: if DO4WKS(I)=1 then go to P61;
if WHYNOT(I)>2 then go to P61;
if DO4WKS(I)=na then go to P56;
if WEEKS(I)^=na ! WHYNOT(I)^=na then go to P62;                 go to P61;
P56: if WEEKS(I)=na ! WHYNOT(I)=na then go to P61;              go to P62;
P61: if DOING(I)<4 ! DOING(I)>6 then go to P610;
ESR(I)=DOING(I);                                                go to P20000;
P610: ESR(I)=7;                                                  go to P20000;
P62: if DOING(I)=6 then DOING(I)=7;
P20000: go to fin;
ESR237: if WHYOFF(I)=na then go to P5019;
if WHYOFF(I)=6 ! WHYOFF(I)=7 then go to P5017;
if EMPTYP(I)^=4 then ESR(I)=2;                                    go to fin;
P5017: if WHYNOT(I)>2 then go to fin;
ESR(I)=3;                                                         go to fin;
P5019: if EMPLOY(I)=1 & EMPTYP(I)^=4 then ESR(I)=2;           fin;;

```

/* COLLAPSED EMPLOYMENT STATUS RECODE 1984-1993 */

```

if ESR(I)=-5 then ESRC(I)=-5;
else if ESR(I)=1 | ESR(I)=2 then ESRC(I)=1;
else if ESR(I)=3 then ESRC(I)=2;
else if ESR(I)>=4 & ESR(I)<=7 then ESRC(I)=3;
else if ESR(I)=8 then ESRC(I)=4;
else ESRC(I)=ESR(I);
end;

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

/* CHANGES BETWEEN 1993 and 1994 */

NOTE: Users should be aware that the CPS section, on which the creation of Employment Status Recode (ESR) is based, was significantly revised in 1994-96. Hence the 1994-96 ESR variables are created using a different formula than variables in previous years (1979-1993). The formula for the 1994 ESR variable was modeled after that used to compute the MLS (Monthly Labor Status) from the actual Current Population Survey (CPS). The programs for both 1994 and 1996 are included below in their entirety. Those variables identified by reference numbers (R#####.) are those which are included on the 1979-1996 Youth CD-ROM. These are in general, questions answered by or containing valid data for, at least one respondent. The questions identified by question name (Q5.....), are those not included on the CD-ROM. These are in general, questions containing no valid data for any respondents. They remain in the formula to have it represented completely. However, the lack of valid data in those variables means that they would have virtually no effect in the formula or on the final value of ESR.

/* 1994 VARIABLES */

/* The programming for the new 1994 ESR variables is done in SPSS */

/* the following lines create the var AGE */

compute AGE=37

/* the following lines construct the var HRACT1 */

do if (Q5B2_40A eq -4)

compute HRACT1=-4

else if (Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2)

compute HRACT1=-2

else if (Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995)

compute HRACT1=995

else if (Q5B2_40B eq 1 and Q5B2_41A ne -4) compute HRACT1=Q5B2_41A

else if (Q5B2_40C eq 1 and Q5B2_41B ne -4) compute HRACT1=Q5B2_41B

else if (Q5B2_40D eq 1 and Q5B2_41C ne -4) compute HRACT1=Q5B2_41C

else if (Q5B2_40E eq 1 or Q5B2_40E eq 0) compute HRACT1=Q5B2_41D

else if (Q5B_40A eq -4) compute HRACT1=-4

else if (Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2)

compute HRACT1=-2

else if (Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995)

compute HRACT1=995

else if (R(45594.) eq 1 and Q5B_41A ne -4) compute HRACT1=Q5B_41A

else if (R(45595.) eq 1 and Q5B_41B ne -4) compute HRACT1=Q5B_41B

else if (R(45596.) eq 1 and Q5B_41C ne -4) compute HRACT1=Q5B_41C

else if (Q5B_40E eq 1 or Q5B_40E eq 0) compute HRACT1=Q5B_41D

else if (R(45443.) eq -4) compute HRACT1=-4

else if (R(45448.) eq -1 or R(45449.) eq -1 or R(45450.) eq -1 or R(45451.) eq -1 or R(45448.) eq -2 or R(45449.) eq -2 or R(45450.) eq -2 or R(45451.) eq -2)

compute HRACT1=-2

else if (R(45448.) eq 995 or R(45449.) eq 995 or R(45450.) eq 995 or R(45451.) eq 995)

compute HRACT1=995

else if (R(45444.) eq 1 and R(45448.) ne -4) compute HRACT1=R(45448.)

else if (R(45445.) eq 1 and R(45449.) ne -4) compute HRACT1=R(45449.)

else if (R(45446.) eq 1 and R(45450.) ne -4) compute HRACT1=R(45450.)

else if (R(45447.) eq 1 or R(45447.) eq 0) compute HRACT1=R(45451.)

else compute HRACT1=-3

end if

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
/* the following lines construct the var HRACT2 */
do if (Q5B2_42 eq -4 or Q5B2_42 eq 0)          compute HRACT2=-4
else if (Q5B2_43A eq -1 or Q5B2_43B eq -1OR Q5B2_43A eq -2 or Q5B2_43B eq -2)      compute
    HRACT2=-2
else if (Q5B2_43A eq 995 or Q5B2_43B eq 995)  compute HRACT2=995
else if (Q5B2_43 eq 1)                        compute HRACT2=Q5B2_43A
else if (Q5B2_42 eq 1 and Q5B2_43 eq 0)      compute HRACT2=Q5B2_43B
else if (Q5B_42 eq -4 or Q5B_42 eq 0)        compute HRACT2=-4
else if (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2)      compute
    HRACT2=-2
else if (Q5B_43A eq 995 or Q5B_43B eq 995)    compute HRACT2=995
else if (Q5B_43 eq 1)                        compute HRACT2=Q5B_43A
else if (Q5B_42 eq 1 and Q5B_43 eq 0)        compute HRACT2=Q5B_43B
else if (R(45452.) eq -4 or R(45452.) eq 0)   compute HRACT2=-4
else if (R(45454.) eq -1 or R(45455.) eq -1 or R(45454.) eq -2 or R(45455.) eq -2) compute
    HRACT2=-2
else if (R(45454.) eq 995 or R(45455.) eq 995) compute HRACT2=995
else if (R(45453.) eq 1)                     compute HRACT2=R(45454.)
else if (R(45452.) eq 1 and R(45453.) eq 0)   compute HRACT2=R(45455.)
else                                           compute HRACT2=-3
end if

/* the following lines create the var HRACTT */
do if (Q5B2_40A eq -4)
compute HRACTT=-4
else if ((Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or
    Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2) and (Q5B2_43A eq -1 or Q5B2_43B eq -1 or
    Q5B2_43A eq -2 or Q5B2_43B eq -2))
compute HRACTT=-2
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and (Q5B2_43A eq
    995 or Q5B2_43B eq 995))
compute HRACTT=995
else if ((Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or
    Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2) and (Q5B2_43A eq 995 or Q5B2_43B eq 995))
compute HRACTT=995
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995 or Q5B2_41A eq 995
    or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and (Q5B2_43A eq -1 or Q5B2_43B eq
    -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2))
compute HRACTT=995
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43A eq
    -1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
    995))
compute HRACTT=Q5B2_41A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43A eq
    -1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
    995))
compute HRACTT=Q5B2_41B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43A eq
    -1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
    995))
compute HRACTT=Q5B2_41C
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43A eq
    -1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
    995))
compute HRACTT=Q5B2_41D
```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
else if ((Q5B2_43A ne -4 and Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995) and (Q5B2_41A eq -1 or Q5B2_41A eq -2 or Q5B2_41A eq 995 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41B eq 995 or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41C eq 995 or Q5B2_41D eq -1 or Q5B2_41D eq -2 or Q5B2_41D eq 995))
compute HRACTT=Q5B2_43A
else if ((Q5B2_43B ne -4 and Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995) and (Q5B2_41A eq -1 or Q5B2_41A eq -2 or Q5B2_41A eq 995 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41B eq 995 or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41C eq 995 or Q5B2_41D eq -1 or Q5B2_41D eq -2 or Q5B2_41D eq 995))
compute HRACTT=Q5B2_43B
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACTT=Q5B2_41A+Q5B2_43A
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACTT=Q5B2_41A+Q5B2_43B
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACTT=Q5B2_41B+Q5B2_43A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACTT=Q5B2_41B+Q5B2_43B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACTT=Q5B2_41C+Q5B2_43A
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACTT=Q5B2_41C+Q5B2_43B
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACTT=Q5B2_41D+Q5B2_43A
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACTT=Q5B2_41D+Q5B2_43B
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACTT=Q5B2_41A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACTT=Q5B2_41B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACTT=Q5B2_41C
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACTT=Q5B2_41D
else if ((Q5B2_41A eq -1 or Q5B2_41A eq -2 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41D eq -1 or Q5B2_41D eq -2) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACTT=-2
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACTT=995
else if (Q5B_40A eq -4)
compute HRACTT=-4
```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
else if ((Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B
eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2) and (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or
Q5B_43B eq -2))
compute HRACCTT=-2
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and (Q5B_43A eq 995 or
Q5B_43B eq 995))
compute HRACCTT=995
else if ((Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B
eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2) and (Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=995
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995 or Q5B_41A eq 995 or
Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and (Q5B_43A eq -1 or Q5B_43B eq -1 or
Q5B_43A eq -2 or Q5B_43B eq -2))
compute HRACCTT=995
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43A eq -1 or
Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43A eq -1 or
Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43A eq -1 or
Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41C
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43A eq -1 or
Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41D
else if ((Q5B_43A ne -4 and Q5B_43A ne -1 and Q5B_43A ne -2 and Q5B_43A ne 995) and (Q5B_41A eq -1 or
Q5B_41A eq -2 or Q5B_41A eq 995 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41B eq 995 or
Q5B_41C eq -1 or Q5B_41C eq -2 or Q5B_41C eq 995 or Q5B_41D eq -1 or Q5B_41D eq -2 or Q5B_41D
eq 995))
compute HRACCTT=Q5B_43A
else if ((Q5B_43B ne -4 and Q5B_43B ne -1 and Q5B_43B ne -2 and Q5B_43B ne 995) and (Q5B_41A eq -1 or
Q5B_41A eq -2 or Q5B_41A eq 995 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41B eq 995 or
Q5B_41C eq -1 or Q5B_41C eq -2 or Q5B_41C eq 995 or Q5B_41D eq -1 or Q5B_41D eq -2 or Q5B_41D
eq 995))
compute HRACCTT=Q5B_43B
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43A ne -1 and
Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41A+Q5B_43A
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43B ne -1 and
Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41A+Q5B_43B
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43A ne -1 and
Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41B+Q5B_43A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43B ne -1 and
Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41B+Q5B_43B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43A ne -1 and
Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41C+Q5B_43A
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43B ne -1 and
Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41C+Q5B_43B
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43A ne -1 and
Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
```

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```
compute HRACCTT=Q5B_41D+Q5B_43A
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41D+Q5B_43B
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41C
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41D
else if ((Q5B_41A eq -1 or Q5B_41A eq -2 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41C eq -1 or Q5B_41C
  eq -2 or Q5B_41D eq -1 or Q5B_41D eq -2) and Q5B_43A eq -4 and Q5B_43B eq -4)
compute HRACCTT=-2
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=995
else if (R(45443.) eq -4)
compute HRACCTT=-4
else if ((R(45448.) eq -1 or R(45449.) eq -1 or R(45450.) eq -1 or R(45451.) eq -1 or R(45448.) eq -2 or R(45449.)
  eq -2 or R(45450.) eq -2 or R(45451.) eq -2) and (R(45454.) eq -1 or R(45455.) eq -1 or R(45454.) eq -2 or
  R(45455.) eq -2))
compute HRACCTT=-2
else if ((R(45448.) eq 995 or R(45449.) eq 995 or R(45450.) eq 995 or R(45451.) eq 995) and (R(45454.) eq 995 or
  R(45455.) eq 995))
compute HRACCTT=995
else if ((R(45448.) eq -1 or R(45449.) eq -1 or R(45450.) eq -1 or R(45451.) eq -1 or R(45448.) eq -2 or R(45449.)
  eq -2 or R(45450.) eq -2 or R(45451.) eq -2) and (R(45454.) eq 995 or R(45455.) eq 995))
compute HRACCTT=995
else if ((R(45448.) eq 995 or R(45449.) eq 995 or R(45450.) eq 995 or R(45451.) eq 995 or R(45448.) eq 995 or
  R(45449.) eq 995 or R(45450.) eq 995 or R(45451.) eq 995) and (R(45454.) eq -1 or R(45455.) eq -1 or
  R(45454.) eq -2 or R(45455.) eq -2))
compute HRACCTT=995
else if ((R(45448.) ne -4 and R(45448.) ne -1 and R(45448.) ne -2 and R(45448.) ne 995) and (R(45454.) eq -1 or
  R(45455.) eq -1 or R(45454.) eq -2 or R(45455.) eq -2 or R(45454.) eq 995 or R(45455.) eq 995))
compute HRACCTT=R(45448.)
else if ((R(45449.) ne -4 and R(45449.) ne -1 and R(45449.) ne -2 and R(45449.) ne 995) and (R(45454.) eq -1 or
  R(45455.) eq -1 or R(45454.) eq -2 or R(45455.) eq -2 or R(45454.) eq 995 or R(45455.) eq 995))
compute HRACCTT=R(45449.)
else if ((R(45450.) ne -4 and R(45450.) ne -1 and R(45450.) ne -2 and R(45450.) ne 995) and (R(45454.) eq -1 or
  R(45455.) eq -1 or R(45454.) eq -2 or R(45455.) eq -2 or R(45454.) eq 995 or R(45455.) eq 995))
compute HRACCTT=R(45450.)
else if ((R(45451.) ne -4 and R(45451.) ne -1 and R(45451.) ne -2 and R(45451.) ne 995) and (R(45454.) eq -1 or
  R(45455.) eq -1 or R(45454.) eq -2 or R(45455.) eq -2 or R(45454.) eq 995 or R(45455.) eq 995))
compute HRACCTT=R(45451.)
else if ((R(45454.) ne -4 and R(45454.) ne -1 and R(45454.) ne -2 and R(45454.) ne 995) and (R(45448.) eq -1 or
  R(45448.) eq -2 or R(45448.) eq 995 or R(45449.) eq -1 or R(45449.) eq -2 or R(45449.) eq 995 or
  R(45450.) eq -1 or R(45450.) eq -2 or R(45450.) eq 995 or R(45451.) eq -1 or R(45451.) eq -2 or R(45451.)
  eq 995))
compute HRACCTT=R(45454.)
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else if ((R(45455.) ne -4 and R(45455.) ne -1 and R(45455.) ne -2 and R(45455.) ne 995) and R(45448.) eq -1 or
R(45448.) eq -2 or R(45448.) eq 995 or R(45449.) eq -1 or R(45449.) eq -2 or R(45449.) eq 995 or
R(45450.) eq -1 or R(45450.) eq -2 or R(45450.) eq 995 or R(45451.) eq -1 or R(45451.) eq -2 or R(45451.)
eq 995))
compute HRACTT=R(45455.)
else if ((R(45448.) ne -4 and R(45448.) ne -1 and R(45448.) ne -2 and R(45448.) ne 995) and (R(45454.) ne -1 and
R(45454.) ne -2 and R(45454.) ne 995 and R(45454.) ne -4))
compute HRACTT=R(45448.)+R(45454.)
else if ((R(45448.) ne -4 and R(45448.) ne -1 and R(45448.) ne -2 and R(45448.) ne 995) and (R(45455.) ne -1 and
R(45455.) ne -2 and R(45455.) ne 995 and R(45455.) ne -4))
compute HRACTT=R(45448.)+R(45455.)
else if ((R(45449.) ne -4 and R(45449.) ne -1 and R(45449.) ne -2 and R(45449.) ne 995) and (R(45454.) ne -1 and
R(45454.) ne -2 and R(45454.) ne 995 and R(45454.) ne -4))
compute HRACTT=R(45449.)+R(45454.)
else if ((R(45449.) ne -4 and R(45449.) ne -1 and R(45449.) ne -2 and R(45449.) ne 995) and (R(45455.) ne -1 and
R(45455.) ne -2 and R(45455.) ne 995 and R(45455.) ne -4))
compute HRACTT=R(45449.)+R(45455.)
else if ((R(45450.) ne -4 and R(45450.) ne -1 and R(45450.) ne -2 and R(45450.) ne 995) and (R(45454.) ne -1 and
R(45454.) ne -2 and R(45454.) ne 995 and R(45454.) ne -4))
compute HRACTT=R(45450.)+R(45454.)
else if ((R(45450.) ne -4 and R(45450.) ne -1 and R(45450.) ne -2 and R(45450.) ne 995) and (R(45455.) ne -1 and
R(45455.) ne -2 and R(45455.) ne 995 and R(45455.) ne -4))
compute HRACTT=R(45450.)+R(45455.)
else if ((R(45451.) ne -4 and R(45451.) ne -1 and R(45451.) ne -2 and R(45451.) ne 995) and (R(45454.) ne -1 and
R(45454.) ne -2 and R(45454.) ne 995 and R(45454.) ne -4))
compute HRACTT=R(45451.)+R(45454.)
else if ((R(45451.) ne -4 and R(45451.) ne -1 and R(45451.) ne -2 and R(45451.) ne 995) and (R(45455.) ne -1 and
R(45455.) ne -2 and R(45455.) ne 995 and R(45455.) ne -4))
compute HRACTT=R(45451.)+R(45455.)
else if ((R(45448.) ne -4 and R(45448.) ne -1 and R(45448.) ne -2 and R(45448.) ne 995) and R(45454.) eq -4 and
R(45455.) eq -4)
compute HRACTT=R(45448.)
else if ((R(45449.) ne -4 and R(45449.) ne -1 and R(45449.) ne -2 and R(45449.) ne 995) and R(45454.) eq -4 and
R(45455.) eq -4)
compute HRACTT=R(45449.)
else if ((R(45450.) ne -4 and R(45450.) ne -1 and R(45450.) ne -2 and R(45450.) ne 995) and R(45454.) eq -4 and
R(45455.) eq -4)
compute HRACTT=R(45450.)
else if ((R(45451.) ne -4 and R(45451.) ne -1 and R(45451.) ne -2 and R(45451.) ne 995) and R(45454.) eq -4 and
R(45455.) eq -4)
compute HRACTT=R(45451.)
else if ((R(45448.) eq -1 or R(45448.) eq -2 or R(45449.) eq -1 or R(45449.) eq -2 or R(45450.) eq -1 or R(45450.)
eq -2 or R(45451.) eq -1 or R(45451.) eq -2) and R(45454.) eq -4 and R(45455.) eq -4)
compute HRACTT=-2
else if ((R(45448.) eq 995 or R(45449.) eq 995 or R(45450.) eq 995 or R(45451.) eq 995) and R(45454.) eq -4 and
R(45455.) eq -4)
compute HRACTT=995
else
compute HRACTT=-3
end if

/* the following lines creates the var BUS2 */
do if (R(45368.) eq -4) compute BUS2=-4
else if (R(45368.) eq -1) compute BUS2=-1
else if (R(45368.) eq -2) compute BUS2=-2
else if (R(45369.) eq -1 or R(45370.) eq -1) compute BUS2=-1
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else if (R(45369.) eq -2 or R(45370.) eq -2)           compute BUS2=-2
else if (R(45369.) eq 1 or R(45370.) eq 1)           compute BUS2=1
else if (R(45370.) eq 0)                             compute BUS2=2 /* this should normally be 0 */
else                                                  compute BUS2=-3
end if

/* the following lines create the var HRUSL1 */
do if (R(45665.) eq -4)                               compute HRUSL1=-4
else if (R(45666.) eq -1 or R(45667.) eq -1 or R(45666.) eq -2 or R(45667.) eq -2)       compute HRUSL1=-2
else if (R(45666.) eq 995 or R(45667.) eq 995)       compute HRUSL1=995
else if (R(45666.) eq 1)                             compute HRUSL1=Q5B2_26B
else if (R(45667.) eq 1)                             compute HRUSL1=Q5B2_26D
else if (R(45582.) eq -4)                             compute HRUSL1=-4
else if (Q5B_26A eq -1 or R(45583.) eq -1 or Q5B_26A eq -2 or R(45583.) eq -2)       compute HRUSL1=-2
else if (Q5B_26A eq 995 or R(45583.) eq 995)       compute HRUSL1=995
else if (Q5B_26A eq 1)                               compute HRUSL1=Q5B_26B
else if (R(45583.) eq 1)                             compute HRUSL1=R(45584.)
else if (R(45399.) eq -4)                             compute HRUSL1=-4
else if (R(45400.) eq -1 or R(45402.) eq -1 or R(45400.) eq -2 or R(45402.) eq -2)       compute HRUSL1=-2
else if (R(45400.) eq 995 or R(45402.) eq 995)       compute HRUSL1=995
else if (R(45400.) eq 1)                             compute HRUSL1=R(45401.)
else if (R(45402.) eq 1)                             compute HRUSL1=R(45403.)
else                                                  compute HRUSL1=-3
end if

/* the following lines create the var HRUSL2 */
do if (Q5B2_28A eq -4)                               compute HRUSL2=-4
else if (Q5B2_28B eq -1 or Q5B2_28D eq -1 or Q5B2_28B eq -2 or Q5B2_28D eq -2)       compute HRUSL2=-2
else if (Q5B2_28B eq 995 or Q5B2_28D eq 995)       compute HRUSL2=995
else if (Q5B2_28B eq 1)                             compute HRUSL2=Q5B2_28C
else if (Q5B2_28D eq 1)                             compute HRUSL2=Q5B2_28E
else if (Q5B_28A eq -4)                             compute HRUSL2=-4
else if (Q5B_28B eq -1 or Q5B_28D eq -1 or Q5B_28B eq -2 or Q5B_28D eq -2)       compute HRUSL2=-2
else if (Q5B_28B eq 995 or Q5B_28D eq 995)       compute HRUSL2=995
else if (Q5B_28B eq 1)                               compute HRUSL2=Q5B_28C
else if (Q5B_28D eq 1)                               compute HRUSL2=Q5B_28E
else if (R(45405.) eq -4)                             compute HRUSL2=-4
else if (R(45406.) eq -1 or R(45408.) eq -1 or R(45406.) eq -2 or R(45408.) eq -2)       compute HRUSL2=-2
else if (R(45406.) eq 995 or R(45408.) eq 995)       compute HRUSL2=995
else if (R(45406.) eq 1)                             compute HRUSL2=Q5_28C
else if (R(45408.) eq 1)                             compute HRUSL2=Q5_28E
else                                                  compute HRUSL2=-3
end if

/* the following lines create the var HRUSLT */
do if (R(45665.) eq -4)
compute HRUSLT=-4
else if ((R(45666.) eq -1 or R(45667.) eq -1 or R(45666.) eq -2 or R(45667.) eq -2) and (Q5B2_28B eq -1 or
Q5B2_28D eq -1 or Q5B2_28B eq -2 or Q5B2_28D eq -2))
compute HRUSLT=-2
else if ((R(45666.) eq 995 or R(45667.) eq 995) and (Q5B2_28B eq 995 or Q5B2_28D eq 995))
compute HRUSLT=995
else if ((R(45666.) eq -1 or R(45667.) eq -1 or R(45666.) eq -2 or R(45667.) eq -2) and (Q5B2_28B eq 995 or
Q5B2_28D eq 995))
compute HRUSLT=995

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else if ((R(45666.) eq 995 or R(45667.) eq 995) and (Q5B2_28B eq -1 or Q5B2_28D eq -1 or Q5B2_28B eq -2 or
  Q5B2_28D eq -2))
compute HRUSLT=995
else if ((R(45666.) eq 995 or R(45667.) eq 995) and Q5B2_27 ne 1)
compute HRUSLT=995
else if ((R(45666.) eq -1 or R(45667.) eq -1 or R(45666.) eq -2 or R(45667.) eq -2) and Q5B2_27 ne 1)
compute HRUSLT=-2
else if (R(45666.) eq 1 and (Q5B2_28B eq -1 or Q5B2_28B eq -2 or Q5B2_28B eq 995 or Q5B2_28D eq -1 or
  Q5B2_28D eq -2 or Q5B2_28D eq 995))
compute HRUSLT=Q5B2_26B
else if (R(45667.) eq 1 and (Q5B2_28B eq -1 or Q5B2_28B eq -2 or Q5B2_28B eq 995 or Q5B2_28D eq -1 or
  Q5B2_28D eq -2 or Q5B2_28D eq 995))
compute HRUSLT=Q5B2_26D
else if (Q5B2_28B eq 1 and (R(45666.) eq -1 or R(45666.) eq -2 or R(45666.) eq 995 or R(45667.) eq -1 or
  R(45667.) eq -2 or R(45667.) eq 995))
compute HRUSLT=Q5B2_28C
else if (Q5B2_28D eq 1 and (R(45666.) eq -1 or R(45666.) eq -2 or R(45666.) eq 995 or R(45667.) eq -1 or
  R(45667.) eq -2 or R(45667.) eq 995))
compute HRUSLT=Q5B2_28E
else if (R(45666.) eq 1 and Q5B2_27 ne 1)           compute HRUSLT=Q5B2_26B
else if (R(45667.) eq 1 and Q5B2_27 ne 1)           compute HRUSLT=Q5B2_26D
else if (R(45666.) eq 1 and Q5B2_28B eq 1) compute HRUSLT=Q5B2_26B+Q5B2_28C
else if (R(45666.) eq 1 and Q5B2_28D eq 1) compute HRUSLT=Q5B2_26B+Q5B2_28E
else if (R(45667.) eq 1 and Q5B2_28B eq 1) compute HRUSLT=Q5B2_26D+Q5B2_28C
else if (R(45667.) eq 1 and Q5B2_28D eq 1) compute HRUSLT=R(45667.)+Q5B2_28E
else if (R(45582.) eq -4)           compute HRUSLT=-4
else if ((Q5B_26A eq -1 or R(45583.) eq -1 or Q5B_26A eq -2 or R(45583.) eq -2) and (Q5B_28B eq -1 or
  Q5B_28D eq -1 or Q5B_28B eq -2 or Q5B_28D eq -2))
compute HRUSLT=-2
else if ((Q5B_26A eq 995 or R(45583.) eq 995) and (Q5B_28B eq 995 or Q5B_28D eq 995))
compute HRUSLT=995
else if ((Q5B_26A eq -1 or R(45583.) eq -1 or Q5B_26A eq -2 or R(45583.) eq -2) and (Q5B_28B eq 995 or
  Q5B_28D eq 995))
compute HRUSLT=995
else if ((Q5B_26A eq 995 or R(45583.) eq 995) and (Q5B_28B eq -1 or Q5B_28D eq -1 or Q5B_28B eq -2 or
  Q5B_28D eq -2))
compute HRUSLT=995
else if ((Q5B_26A eq 995 or R(45583.) eq 995) and R(45585.) ne 1)
compute HRUSLT=995
else if ((Q5B_26A eq -1 or R(45583.) eq -1 or Q5B_26A eq -2 or R(45583.) eq -2) and R(45585.) ne 1)
compute HRUSLT=-2
else if (Q5B_26A eq 1 and (Q5B_28B eq -1 or Q5B_28B eq -2 or Q5B_28B eq 995 or Q5B_28D eq -1 or
  Q5B_28D eq -2 or Q5B_28D eq 995))
compute HRUSLT=Q5B_26B
else if (R(45583.) eq 1 and (Q5B_28B eq -1 or Q5B_28B eq -2 or Q5B_28B eq 995 or Q5B_28D eq -1 or
  Q5B_28D eq -2 or Q5B_28D eq 995))
compute HRUSLT=R(45584.)
else if (Q5B_28B eq 1 and (Q5B_26A eq -1 or Q5B_26A eq -2 or Q5B_26A eq 995 or R(45583.) eq -1 or
  R(45583.) eq -2 or R(45583.) eq 995))
compute HRUSLT=Q5B_28C
else if (Q5B_28D eq 1 and (Q5B_26A eq -1 or Q5B_26A eq -2 or Q5B_26A eq 995 or R(45583.) eq -1 or
  R(45583.) eq -2 or R(45583.) eq 995))
compute HRUSLT=Q5B_28E
else if (Q5B_26A eq 1 and R(45585.) ne 1)           compute HRUSLT=Q5B_26B
else if (R(45583.) eq 1 and R(45585.) ne 1)           compute HRUSLT=R(45584.)
else if (Q5B_26A eq 1 and Q5B_28B eq 1)           compute HRUSLT=Q5B_26B+Q5B_28C
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else if (Q5B_26A eq 1 and Q5B_28D eq 1)           compute HRUSLT=Q5B_26B+Q5B_28E
else if (R(45583.) eq 1 and Q5B_28B eq 1)       compute HRUSLT=R(45584.)+Q5B_28C
else if (R(45583.) eq 1 and Q5B_28D eq 1)       compute HRUSLT=R(45583.)+Q5B_28E
else if (R(45399.) eq -4)                       compute HRUSLT=-4
else if ((R(45400.) eq -1 or R(45402.) eq -1 or R(45400.) eq -2 or R(45402.) eq -2) and (R(45406.) eq -1 or
R(45408.) eq -1 or R(45406.) eq -2 or R(45408.) eq -2))
compute HRUSLT=-2
else if ((R(45400.) eq 995 or R(45402.) eq 995) and (R(45406.) eq 995 or R(45408.) eq 995))
compute HRUSLT=995
else if ((R(45400.) eq -1 or R(45402.) eq -1 or R(45400.) eq -2 or R(45402.) eq -2) and (R(45406.) eq 995 or
R(45408.) eq 995))
compute HRUSLT=995
else if ((R(45400.) eq 995 or R(45402.) eq 995) and (R(45406.) eq -1 or R(45408.) eq -1 or R(45406.) eq -2 or
R(45408.) eq -2))
compute HRUSLT=995
else if ((R(45400.) eq 995 or R(45402.) eq 995) and R(45404.) ne 1)
compute HRUSLT=995
else if ((R(45400.) eq -1 or R(45402.) eq -1 or R(45400.) eq -2 or R(45402.) eq -2) and R(45404.) ne 1)
compute HRUSLT=-2
else if (R(45400.) eq 1 and (R(45406.) eq -1 or R(45406.) eq -2 or R(45406.) eq 995 or R(45408.) eq -1 or
R(45408.) eq -2 or R(45408.) eq 995))
compute HRUSLT=R(45401.)
else if (R(45402.) eq 1 and (R(45406.) eq -1 or R(45406.) eq -2 or R(45406.) eq 995 or R(45408.) eq -1 or
R(45408.) eq -2 or R(45408.) eq 995))
compute HRUSLT=R(45403.)
else if (R(45406.) eq 1 and (R(45400.) eq -1 or R(45400.) eq -2 or R(45400.) eq 995 or R(45402.) eq -1 or
R(45402.) eq -2 or R(45402.) eq 995))
compute HRUSLT=R(45407.)
else if (R(45408.) eq 1 and (R(45400.) eq -1 or R(45400.) eq -2 or R(45400.) eq 995 or R(45402.) eq -1 or
R(45402.) eq -2 or R(45402.) eq 995))
compute HRUSLT=R(45409.)
else if (R(45400.) eq 1 and R(45404.) ne 1) compute HRUSLT=R(45401.)
else if (R(45402.) eq 1 and R(45404.) ne 1) compute HRUSLT=R(45403.)
else if (R(45400.) eq 1 and R(45406.) eq 1) compute HRUSLT=R(45401.)+R(45407.)
else if (R(45400.) eq 1 and R(45408.) eq 1) compute HRUSLT=R(45401.)+R(45409.)
else if (R(45402.) eq 1 and R(45406.) eq 1) compute HRUSLT=R(45403.)+R(45407.)
else if (R(45402.) eq 1 and R(45408.) eq 1) compute HRUSLT=R(45402.)+R(45409.)
else compute HRUSLT=-3
end if

/* the following lines create the var HRFTPT */
do if (Q5B2_30C eq -4) compute HRFTPT=-4
else if (Q5B2_30F eq -1 or Q5B2_30G eq -1 or Q5B2_30H eq -1 or Q5B2_30I eq -1) compute HRFTPT=-1
else if (Q5B2_30F eq -2 or Q5B2_30G eq -2 or Q5B2_30H eq -2 or Q5B2_30I eq -2) compute HRFTPT=-2
else if (Q5B2_30F ne -4) compute HRFTPT=Q5B2_30F
else if (Q5B2_30G ne -4) compute HRFTPT=Q5B2_30G
else if (Q5B2_30H ne -4) compute HRFTPT=Q5B2_30H
else if (Q5B2_30I ne -4) compute HRFTPT=Q5B2_30I
else if (Q5B_30C eq -4) compute HRFTPT=-4
else if (Q5B_30F eq -1 or Q5B_30G eq -1 or Q5B_30H eq -1 or Q5B_30I eq -1) compute HRFTPT=-1
else if (Q5B_30F eq -2 or Q5B_30G eq -2 or Q5B_30H eq -2 or Q5B_30I eq -2) compute HRFTPT=-2
else if (Q5B_30F ne -4) compute HRFTPT=Q5B_30F
else if (Q5B_30G ne -4) compute HRFTPT=Q5B_30G
else if (Q5B_30H ne -4) compute HRFTPT=Q5B_30H
else if (Q5B_30I ne -4) compute HRFTPT=Q5B_30I
else if (R(45420.) eq -4) compute HRFTPT=-4

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else if (Q5_30F eq -1 or R(45423.) eq -1 or R(45424.) eq -1 or R(45425.) eq -1) compute HRFTPT=-1
else if (Q5_30F eq -2 or R(45423.) eq -2 or R(45424.) eq -2 or R(45425.) eq -2) compute HRFTPT=-2
else if (Q5_30F ne -4) compute HRFTPT=Q5_30F
else if (R(45423.) ne -4) compute HRFTPT=R(45423.)
else if (R(45424.) ne -4) compute HRFTPT=R(45424.)
else if (R(45425.) ne -4) compute HRFTPT=R(45425.)
else compute HRFTPT=-3
end if

/* the following lines create the var HRWANT */
do if (Q5B2_33 ne -4) compute HRWANT=Q5B2_33
else if (Q5B_33 ne -4) compute HRWANT=Q5B_33
else compute HRWANT=R(45436.)
end if

/* the following lines create the var HRRSN1 */
do if (Q5B2_34 ne -4) compute HRRSN1=Q5B2_34
else if (Q5B_34 ne -4) compute HRRSN1=Q5B_34
else compute HRRSN1=R(45437.)
end if

/* the following lines create the var HRCK7 */
compute HRCK7=-4
do if ((BUS2 eq 2 or BUS2 eq -2 or BUS2 eq -1) and (HRACT1 LT 15 or HRACT1 eq -2))
compute HRCK7=1
else if ((BUS2 eq 2 or BUS2 eq -2 or BUS2 eq -1) and HRACT1 GE 15)
compute HRCK7=2
else if ((HRUSLT GE 35 or HRFTPT eq 1) and HRACTT LT 35 and (HRACT1 ne -1 or HRACT1 ne -2 or
HRACT2 ne -1 or HRACT2 ne -2))
compute HRCK7=3
else if (HRWANT eq 1 and HRACTT LT 35 and (HRRSN1 eq 1 or HRRSN1 eq 2 or HRRSN1 eq 3))
compute HRCK7=4
else
compute HRCK7=5
end if

/* the following lines create the var ABSOT */
do if (HRACT1 eq 0 and HRACT2 eq 0) compute ABSOT=1
else compute ABSOT=0 end if

/* the following lines create the var HRCK6 */
compute HRCK6=-4
do if ((HRACT1 eq 0 and HRACT2 eq 0) and (BUS2 eq 2 or BUS2 eq -1 or BUS2 eq -2))
compute HRCK6=1
else if (ABSOT eq 1) compute HRCK6=2
else compute HRCK6=3 end if

/* the following lines create the var WK */
compute WK=-4
do if (R(45364.) ne -4) compute WK=R(45364.)
else if (R(45365.) ne -4) compute WK=R(45365.) end if

/* the following lines create the var RETOT */
do if (WK eq 3) compute RETOT=1
else compute RETOT=0 end if
```

Appendix 1: Employment Status Recode (ESR) Variable Creation

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/* the following lines rename the vars */
compute BUS1=R(45367.)      compute RET1=R(45374.)
compute IO1COW=R(45360.)   compute NLFACT=R(45737.)

/* the following lines create additional variables */
do if (Q5B2_22 ne -4)      compute ABSPD=Q5B2_22
else if (R(45577.) ne -4) compute ABSPD=R(45577.)
else                       compute ABSPD=R(45393.)           end if

do if (Q5B2_65 ne -4)      compute LKAVL=Q5B2_65
else if (R(45647.) ne -4) compute LKAVL=R(45647.)
else                       compute LKAVL=R(45539.)           end if

do if (Q5B2_51 ne -4)      compute LAYAVL=Q5B2_51
else if (Q5B_51 ne -4)    compute LAYAVL=Q5B_51
else                       compute LAYAVL=R(45470.)           end if

do if (Q5B2_66 ne -4)      compute LKAVR=Q5B2_66
else if (Q5B_66 ne -4)    compute LKAVR=Q5B_66
else                       compute LKAVR=R(45540.)           end if

do if (Q5B2_52 ne -4)      compute LAYAVR=Q5B2_52
else if (Q5B_52 ne -4)    compute LAYAVR=Q5B_52
else                       compute LAYAVR=R(45471.)           end if

do if (Q5B2_60 ne -4)      compute LK=Q5B2_60
else if (R(45600.) ne -4) compute LK=R(45600.)
else                       compute LK=R(45480.)               end if

do if (Q5B2_11 ne -4)      compute DIS1=Q5B2_11
else if (R(45562.) ne -4) compute DIS1=R(45562.)
else                       compute DIS1=R(45375.)               end if

do if (Q5B2_12 ne -4)      compute DIS2=Q5B2_12
else if (R(45563.) ne -4) compute DIS2=R(45563.)
else                       compute DIS2=R(45376.)               end if

/* the following lines create the var DWWNTO */
do if (RET1 eq 1)          compute DWWNTO=1

else if (Q5B2_78 eq 1)     compute DWWNTO=1
else if (Q5B2_78 eq 0)     compute DWWNTO=2
else if (Q5B2_78 eq -2)    compute DWWNTO=-2
else if (Q5B2_78 eq -1)   compute DWWNTO=-1
else if (Q5B2_78 eq 3)     compute DWWNTO=3
else if (Q5B2_78 eq 4)     compute DWWNTO=4
else if (R(45662.) eq 1)   compute DWWNTO=1
else if (R(45662.) eq 0)   compute DWWNTO=2
else if (R(45662.) eq -2)  compute DWWNTO=-2
else if (R(45662.) eq -1)  compute DWWNTO=-1
else if (R(45662.) eq 3)   compute DWWNTO=3
else if (R(45662.) eq 4)   compute DWWNTO=4
else if (R(45558.) eq 1)   compute DWWNTO=1
else if (R(45558.) eq 0)   compute DWWNTO=2
else if (R(45558.) eq -2)  compute DWWNTO=-2
else if (R(45558.) eq -1)  compute DWWNTO=-1

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```
else if (R(45558.) eq 3)   compute DWWNTO=3
else if (R(45558.) eq 4)   compute DWWNTO=4
else                       compute DWWNTO=-3           end if

/* the following lines create the var DIS */
do if (Q5_9A4 eq -4)
compute DIS=-4
else if (Q5_9D eq -1 or Q5_9E eq -1 or Q5_9F eq -1 or Q5_9G eq -1) or (Q5_9D eq -2 or Q5_9E eq -2 or Q5_9F
eq -2 or Q5_9G eq -2)
compute DIS=-2
else if (Q5_9A4 eq 1 and Q5_9D eq 1)   compute DIS=1
else if (Q5_9D eq 0)                   compute DIS=0
else if (Q5_9A5 eq 1 and Q5_9E eq 1)   compute DIS=1
else if (Q5_9E eq 0)                   compute DIS=0
else if (Q5_9A6 eq 1 and Q5_9F eq 1)   compute DIS=1
else if (Q5_9F eq 0)                   compute DIS=0
else if (Q5_9A7 eq 1 and Q5_9G eq 1)   compute DIS=1
else if (Q5_9G eq 0)                   compute DIS=0
else                                   compute DIS=-3           end if

/* the following lines create IO1COW */
do if (R(45360.) eq 1)                 compute IO1COW=8
else                                   compute IO1COW=0           end if

/* the following lines create the ESR var approximating MLR */
do if ((WK eq 1 and (HRCK6 eq 3 or HRCK6 eq -4 or HRCK6 eq 99 or HRCK6 eq 999)) or (BUS1 eq 1 and
(HRCK7 eq 2 or HRCK7 eq 3 or HRCK7 eq 4 or HRCK7 eq 5 or HRCK7 eq -4)))
compute ESR=1
else if (ABSPD eq 1 or ABSPD eq 0 or ABSPD eq -1 or ABSPD eq -2)
compute ESR=2
else if ((LAYAVL eq 1 or LAYAVL eq -1 or LAYAVL eq -2) or LAYAVR eq 1)
compute ESR=3
else if ((LKAVL eq 1 or LKAVL eq -1 or LKAVL eq -2) or (LKAVR eq 1 or LKAVR eq 2))
compute ESR=4
else if ((WK eq 3 and AGE GE 50 and RET1 eq 1 and LK eq 1 and LKAVL eq 0 and (LKAVR eq 3 or LKAVR eq
4 or LKAVR eq -1 or LKAVR eq -2)) or (RET1 eq 0 or LK eq 3 or DWWNTO eq 3) or NLFACT eq 5
or RETOT eq 1)
compute ESR=5
else if (DIS1 eq 1 or DIS2 eq 1 or DIS eq 1)   compute ESR=6
else if (R(45360.) eq 1)                       compute ESR=8
else                                           compute ESR=7
end if

ESR(6)=R(15199.);   ESR(7)=R(18906.);   ESR(8)=R(22577.);
ESR(9)=R(24451.);   ESR(10)=R(28706.);   ESR(11)=R(30743.);
ESR(12)=R(34010.);   ESR(13)=R(36564.);   ESR(14)=R(40069.);
ESR(15)=R(44180.);   ESR(16)=R(50810.);   ESRC(6)=R(15199.01);
ESRC(7)=R(18906.01);   ESRC(8)=R(22577.01);   ESRC(9)=R(24451.01);
ESRC(10)=R(28707.);   ESRC(11)=R(30744.);   ESRC(12)=R(34011.);
EARC(13)=R(36565.);   EARC(14)=R(40070.);   ESRC(15)=R(44181.);
ESRC(16)=R(50811.);
```

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/ 1996 VARIABLES */*

/ The programming for the new 1996 ESR variables is done in SPSS */*

/ the following lines create the var AGE */*

compute AGE=37

/ the following lines construct the var HRACT1 */*

do if (Q5B2_40A eq -4)

compute HRACT1=-4

else if (Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2)

compute HRACT1=-2

else if (Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995)

compute HRACT1=995

else if (Q5B2_40B eq 1 and Q5B2_41A ne -4) compute HRACT1=Q5B2_41A

else if (Q5B2_40C eq 1 and Q5B2_41B ne -4) compute HRACT1=Q5B2_41B

else if (Q5B2_40D eq 1 and Q5B2_41C ne -4) compute HRACT1=Q5B2_41C

else if (Q5B2_40E eq 1 or Q5B2_40E eq 0) compute HRACT1=Q5B2_41D

else if (Q5B_40A eq -4) compute HRACT1=-4

else if (Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2)

compute HRACT1=-2

else if (Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995)

compute HRACT1=995

else if (Q5BCK_40B eq 1 and Q5B_41A ne -4) compute HRACT1=Q5B_41A

else if (Q5BCK_40C eq 1 and Q5B_41B ne -4) compute HRACT1=Q5B_41B

else if (Q5BCK_40D eq 1 and Q5B_41C ne -4) compute HRACT1=Q5B_41C

else if (Q5B_40E eq 1 or Q5B_40E eq 0) compute HRACT1=Q5B_41D

else if (R(52404.) eq -4) compute HRACT1=-4

else if (Q5_41A eq -1 or Q5_41B eq -1 or Q5_41C eq -1 or Q5_41D eq -1 or Q5_41A eq -2 or Q5_41B eq -2 or Q5_41C eq -2 or Q5_41D eq -2)

compute HRACT1=-2

else if (Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995)

compute HRACT1=995

else if (Q5_40B eq 1 and Q5_41A ne -4) compute HRACT1= Q5_41A

else if (Q5_40C eq 1 and Q5_41B ne -4) compute HRACT1= Q5_41B

else if (Q5_40D eq 1 and Q5_41C ne -4) compute HRACT1= Q5_41C

else if (Q5_40E eq 1 or Q5_40E eq 0) compute HRACT1= Q5_41D

else compute HRACT1=-3 end if

/ the following lines construct the var HRACT2 */*

do if (Q5B2_42 eq -4 or Q5B2_42 eq 0) compute HRACT2=-4

else if (Q5B2_43A eq -1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2) compute HRACT2=-2

else if (Q5B2_43A eq 995 or Q5B2_43B eq 995) compute HRACT2=995

else if (Q5B2_43 eq 1) compute HRACT2=Q5B2_43A

else if (Q5B2_42 eq 1 and Q5B2_43 eq 0) compute HRACT2=Q5B2_43B

else if (Q5B_42 eq -4 or Q5B_42 eq 0) compute HRACT2=-4

else if (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2) compute HRACT2=-2

else if (Q5B_43A eq 995 or Q5B_43B eq 995) compute HRACT2=995

else if (Q5B_43 eq 1) compute HRACT2=Q5B_43A

else if (Q5B_42 eq 1 and Q5B_43 eq 0) compute HRACT2=Q5B_43B

else if (Q5_42 eq -4 or Q5_42 eq 0) compute HRACT2=-4

else if (Q5_43A eq -1 or Q5_43B eq -1 or Q5_43A eq -2 or Q5_43B eq -2) compute HRACT2=-2

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```
else if (Q5_43A eq 995 or Q5_43B eq 995)           compute HRACT2=995
else if (Q5_43 eq 1)                               compute HRACT2= Q5_43A
else if (Q5_42 eq 1 and Q5_43 eq 0)               compute HRACT2= Q5_43B
else                                               compute HRACT2=-3           end if

/* the following lines create the var HRACTT */
do if (Q5B2_40A eq -4)
compute HRACTT=-4
else if ((Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or
Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2) and (Q5B2_43A eq -1 or Q5B2_43B eq -1 or
Q5B2_43A eq -2 or Q5B2_43B eq -2))
compute HRACTT=-2
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and (Q5B2_43A eq
995 or Q5B2_43B eq 995))
compute HRACTT=995
else if ((Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or
Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2) and (Q5B2_43A eq 995 or Q5B2_43B eq 995))
compute HRACTT=995
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995 or Q5B2_41A eq 995
or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and (Q5B2_43A eq -1 or Q5B2_43B eq
-1 or Q5B2_43A eq -2 or Q5B2_43B eq -2))
compute HRACTT=995
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43A eq
-1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
995))
compute HRACTT=Q5B2_41A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43A eq
-1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
995))
compute HRACTT=Q5B2_41B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43A eq
-1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
995))
compute HRACTT=Q5B2_41C
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43A eq
-1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq
995))
compute HRACTT=Q5B2_41D
else if ((Q5B2_43A ne -4 and Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995) and (Q5B2_41A eq
-1 or Q5B2_41A eq -2 or Q5B2_41A eq 995 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41B eq 995
or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41C eq 995 or Q5B2_41D eq -1 or Q5B2_41D eq -2 or
Q5B2_41D eq 995))
compute HRACTT=Q5B2_43A
else if ((Q5B2_43B ne -4 and Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995) and (Q5B2_41A eq
-1 or Q5B2_41A eq -2 or Q5B2_41A eq 995 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41B eq 995
or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41C eq 995 or Q5B2_41D eq -1 or Q5B2_41D eq -2 or
Q5B2_41D eq 995))
compute HRACTT=Q5B2_43B
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43A ne
-1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACTT=Q5B2_41A+Q5B2_43A
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43B ne
-1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACTT=Q5B2_41A+Q5B2_43B
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43A ne
-1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
```


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```
compute HRACCTT=Q5B2_41B+Q5B2_43A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43B ne
-1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACCTT=Q5B2_41B+Q5B2_43B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43A ne
-1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACCTT=Q5B2_41C+Q5B2_43A
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43B ne
-1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACCTT=Q5B2_41C+Q5B2_43B
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43A ne
-1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACCTT=Q5B2_41D+Q5B2_43A
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43B ne
-1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACCTT=Q5B2_41D+Q5B2_43B
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and Q5B2_43A eq
-4 and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and Q5B2_43A eq -4
and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and Q5B2_43A eq -4
and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41C
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and Q5B2_43A eq
-4 and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41D
else if ((Q5B2_41A eq -1 or Q5B2_41A eq -2 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41C eq -1 or
Q5B2_41C eq -2 or Q5B2_41D eq -1 or Q5B2_41D eq -2) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACCTT=-2
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and Q5B2_43A eq
-4 and Q5B2_43B eq -4)
compute HRACCTT=995
else if (Q5B_40A eq -4)
compute HRACCTT=-4
else if ((Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B
eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2) and (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or
Q5B_43B eq -2))
compute HRACCTT=-2
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and (Q5B_43A eq 995 or
Q5B_43B eq 995))
compute HRACCTT=995
else if ((Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B
eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2) and (Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=995
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995 or Q5B_41A eq 995 or
Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and (Q5B_43A eq -1 or Q5B_43B eq -1 or
Q5B_43A eq -2 or Q5B_43B eq -2))
compute HRACCTT=995
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43A eq -1 or
Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43A eq -1 or
Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41B
```

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```
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43A eq -1 or
  Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41C
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43A eq -1 or
  Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41D
else if ((Q5B_43A ne -4 and Q5B_43A ne -1 and Q5B_43A ne -2 and Q5B_43A ne 995) and (Q5B_41A eq -1 or
  Q5B_41A eq -2 or Q5B_41A eq 995 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41B eq 995 or
  Q5B_41C eq -1 or Q5B_41C eq -2 or Q5B_41C eq 995 or Q5B_41D eq -1 or Q5B_41D eq -2 or Q5B_41D
  eq 995))
compute HRACCTT=Q5B_43A
else if ((Q5B_43B ne -4 and Q5B_43B ne -1 and Q5B_43B ne -2 and Q5B_43B ne 995) and (Q5B_41A eq -1 or
  Q5B_41A eq -2 or Q5B_41A eq 995 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41B eq 995 or
  Q5B_41C eq -1 or Q5B_41C eq -2 or Q5B_41C eq 995 or Q5B_41D eq -1 or Q5B_41D eq -2 or Q5B_41D
  eq 995))
compute HRACCTT=Q5B_43B
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41A+Q5B_43A
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41A+Q5B_43B
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41B+Q5B_43A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41B+Q5B_43B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41C+Q5B_43A
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41C+Q5B_43B
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41D+Q5B_43A
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41D+Q5B_43B
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41C
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41D
else if ((Q5B_41A eq -1 or Q5B_41A eq -2 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41C eq -1 or Q5B_41C
  eq -2 or Q5B_41D eq -1 or Q5B_41D eq -2) and Q5B_43A eq -4 and Q5B_43B eq -4)
compute HRACCTT=-2
```

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```
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACTT=995
else if (R(52404.) eq -4)
compute HRACTT=-4
else if ((Q5_41A eq -1 or Q5_41B eq -1 or Q5_41C eq -1 or Q5_41D eq -1 or Q5_41A eq -2 or Q5_41B eq -2 or
  Q5_41C eq -2 or Q5_41D eq -2) and (Q5_43A eq -1 or Q5_43B eq -1 or Q5_43A eq -2 or Q5_43B eq -2))
compute HRACTT=-2
else if ((Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995) and (Q5_43A eq 995 or
  Q5_43B eq 995))
compute HRACTT=995
else if ((Q5_41A eq -1 or Q5_41B eq -1 or Q5_41C eq -1 or Q5_41D eq -1 or Q5_41A eq -2 or Q5_41B eq -2 or
  Q5_41C eq -2 or Q5_41D eq -2) and (Q5_43A eq 995 or Q5_43B eq 995))
compute HRACTT=995
else if ((Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995 or Q5_41A eq 995 or Q5_41B eq
  995 or Q5_41C eq 995 or Q5_41D eq 995) and (Q5_43A eq -1 or Q5_43B eq -1 or Q5_43A eq -2 or
  Q5_43B eq -2))
compute HRACTT=995
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACTT= Q5_41A
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACTT= Q5_41B
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACTT= Q5_41C
else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACTT= Q5_41D
else if ((Q5_43A ne -4 and Q5_43A ne -1 and Q5_43A ne -2 and Q5_43A ne 995) and (Q5_41A eq -1 or Q5_41A
  eq -2 or Q5_41A eq 995 or Q5_41B eq -1 or Q5_41B eq -2 or Q5_41B eq 995 or Q5_41C eq -1 or Q5_41C
  eq -2 or Q5_41C eq 995 or Q5_41D eq -1 or Q5_41D eq -2 or Q5_41D eq 995))
compute HRACTT= Q5_43A
else if ((Q5_43B ne -4 and Q5_43B ne -1 and Q5_43B ne -2 and Q5_43B ne 995) and (Q5_41A eq -1 or Q5_41A
  eq -2 or Q5_41A eq 995 or Q5_41B eq -1 or Q5_41B eq -2 or Q5_41B eq 995 or Q5_41C eq -1 or Q5_41C
  eq -2 or Q5_41C eq 995 or Q5_41D eq -1 or Q5_41D eq -2 or Q5_41D eq 995))
compute HRACTT= Q5_43B
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACTT= Q5_41A+Q5_43A
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and (Q5_43B ne -1 and Q5_43B
  ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACTT= Q5_41A+Q5_43B
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACTT= Q5_41B+ Q5_43A
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and (Q5_43B ne -1 and Q5_43B
  ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACTT= Q5_41B+ Q5_43B
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACTT= Q5_41C+ Q5_43A
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and (Q5_43B ne -1 and Q5_43B
  ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACTT= Q5_41C Q5_43B
```

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```
else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACCTT= Q5_41D+ Q5_43A
else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and (Q5_43B ne -1 and Q5_43B
  ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACCTT= Q5_41D+ Q5_43B
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and Q5_43A eq -4 and Q5_43B
  eq -4)
compute HRACCTT= Q5_41A
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and Q5_43A eq -4 and Q5_43B
  eq -4)
compute HRACCTT= Q5_41B
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and Q5_43A eq -4 and Q5_43B
  eq -4)
compute HRACCTT= Q5_41C
else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and Q5_43A eq -4 and Q5_43B
  eq -4)
compute HRACCTT= Q5_41D
else if ((Q5_41A eq -1 or Q5_41A eq -2 or Q5_41B eq -1 or Q5_41B eq -2 or Q5_41C eq -1 or Q5_41C eq -2 or
  Q5_41D eq -1 or Q5_41D eq -2) and Q5_43A eq -4 and Q5_43B eq -4)
compute HRACCTT=-2
else if ((Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995) and Q5_43A eq -4 and Q5_43B
  eq -4)
compute HRACCTT=995
else    compute HRACCTT=-3          end if

/* the following lines creates the var BUS2 */
do if (R(52322.) eq -4)          compute BUS2=-4
else if (R(52322.) eq -1)       compute BUS2=-1
else if (R(52322.) eq -2)       compute BUS2=-2
else if (R(52323.) eq -1 or R(52324.) eq -1)    compute BUS2=-1
else if (R(52323.) eq -2 or R(52324.) eq -2)    compute BUS2=-2
else if (R(52323.) eq 1 or R(52324.) eq 1)      compute BUS2=1
else if (R(52324.) eq 0)          compute BUS2=2 /* this should normally be 0 */
else                               compute BUS2=-3          end if

/* the following lines create the var HRUSL1 */
do if (Q5BCK2_25 eq -4)          compute HRUSL1=-4
else if (Q5BCK2_26A eq -1 or Q5BCK2_26C eq -1 or Q5BCK2_26A eq -2 or Q5BCK2_26C eq -2)
  compute HRUSL1=-2
else if (Q5BCK2_26A eq 995 or Q5BCK2_26C eq 995) compute HRUSL1=995
else if (Q5BCK2_26A eq 1)          compute HRUSL1=Q5B2_26B
else if (Q5BCK2_26C eq 1)          compute HRUSL1=Q5B2_26D
else if (R(52486.) eq -4)          compute HRUSL1=-4
else if (Q5B_26A eq -1 or R(52487.) eq -1 or Q5B_26A eq -2 or R(52487.) eq -2)
  compute HRUSL1=-2
else if (Q5B_26A eq 995 or R(52487.) eq 995)    compute HRUSL1=995
else if (Q5B_26A eq 1)          compute HRUSL1=Q5B_26B
else if (R(52487.) eq 1)        compute HRUSL1=R(52488.)
else if (R(52360.) eq -4)        compute HRUSL1=-4
else if (R(52361.) eq -1 or R(52363.) eq -1 or R(52361.) eq -2 or R(52363.) eq -2)
  compute HRUSL1=-2
else if (R(52361.) eq 995 or R(52363.) eq 995)    compute HRUSL1=995
else if (R(52361.) eq 1)        compute HRUSL1=R(52362.)
else if (R(52363.) eq 1)        compute HRUSL1=R(52364.)
else                               compute HRUSL1=-3          end if
```

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/* the following lines create the var HRUSL2 */
do if (Q5B2_28A eq -4)                compute HRUSL2=-4
else if (Q5B2_28B eq -1 or Q5B2_28D eq -1 or Q5B2_28B eq -2 or Q5B2_28D eq -2)    compute
    HRUSL2=-2
else if (Q5B2_28B eq 995 or Q5B2_28D eq 995)    compute HRUSL2=995
else if (Q5B2_28B eq 1)                compute HRUSL2=Q5B2_28C
else if (Q5B2_28D eq 1)                compute HRUSL2=Q5B2_28E
else if (Q5B_28A eq -4)                compute HRUSL2=-4
else if (Q5B_28B eq -1 or Q5B_28D eq -1 or Q5B_28B eq -2 or Q5B_28D eq -2)    compute
    HRUSL2=-2
else if (Q5B_28B eq 995 or Q5B_28D eq 995)    compute HRUSL2=995
else if (Q5B_28B eq 1)                compute HRUSL2=Q5B_28C
else if (Q5B_28D eq 1)                compute HRUSL2=Q5B_28E
else if (R(52366.) eq -4)              compute HRUSL2=-4
else if (R(52367.) eq -1 or R(52369.) eq -1 or R(52367.) eq -2 or R(52369.) eq -2)    compute
    HRUSL2=-2
else if (R(52367.) eq 995 or R(52369.) eq 995)    compute HRUSL2=995
else if (R(52367.) eq 1)              compute HRUSL2=Q5_28C
else if (R(52369.) eq 1)              compute HRUSL2=Q5_28E
else                                  compute HRUSL2=-3                end if

/* the following lines create the var HRUSLT */
do if (Q5BCK2_25 eq -4)
compute HRUSLT=-4
else if ((Q5BCK2_26A eq -1 or Q5BCK2_26C eq -1 or Q5BCK2_26A eq -2 or Q5BCK2_26C eq -2) and
(Q5B2_28B eq -1 or Q5B2_28D eq -1 or Q5B2_28B eq -2 or Q5B2_28D eq -2))
compute HRUSLT=-2
else if ((Q5BCK2_26A eq 995 or Q5BCK2_26C eq 995) and (Q5B2_28B eq 995 or Q5B2_28D eq 995))
compute HRUSLT=995
else if ((Q5BCK2_26A eq -1 or Q5BCK2_26C eq -1 or Q5BCK2_26A eq -2 or Q5BCK2_26C eq -2) and
(Q5B2_28B eq 995 or Q5B2_28D eq 995))
compute HRUSLT=995
else if ((Q5BCK2_26A eq 995 or Q5BCK2_26C eq 995) and (Q5B2_28B eq -1 or Q5B2_28D eq -1 or Q5B2_28B
eq -2 or Q5B2_28D eq -2))
compute HRUSLT=995
else if ((Q5BCK2_26A eq 995 or Q5BCK2_26C eq 995) and Q5B2_27 ne 1)
compute HRUSLT=995
else if ((Q5BCK2_26A eq -1 or Q5BCK2_26C eq -1 or Q5BCK2_26A eq -2 or Q5BCK2_26C eq -2) and
Q5B2_27 ne 1)
compute HRUSLT=-2
else if (Q5BCK2_26A eq 1 and (Q5B2_28B eq -1 or Q5B2_28B eq -2 or Q5B2_28B eq 995 or Q5B2_28D eq -1 or
Q5B2_28D eq -2 or Q5B2_28D eq 995))
compute HRUSLT=Q5B2_26B
else if (Q5BCK2_26C eq 1 and (Q5B2_28B eq -1 or Q5B2_28B eq -2 or Q5B2_28B eq 995 or Q5B2_28D eq -1 or
Q5B2_28D eq -2 or Q5B2_28D eq 995))
compute HRUSLT=Q5B2_26D
else if (Q5B2_28B eq 1 and (Q5BCK2_26A eq -1 or Q5BCK2_26A eq -2 or Q5BCK2_26A eq 995 or
Q5BCK2_26C eq -1 or Q5BCK2_26C eq -2 or Q5BCK2_26C eq 995))
compute HRUSLT=Q5B2_28C
else if (Q5B2_28D eq 1 and (Q5BCK2_26A eq -1 or Q5BCK2_26A eq -2 or Q5BCK2_26A eq 995 or
Q5BCK2_26C eq -1 or Q5BCK2_26C eq -2 or Q5BCK2_26C eq 995))
compute HRUSLT=Q5B2_28E
else if (Q5BCK2_26A eq 1 and Q5B2_27 ne 1)                compute HRUSLT=Q5B2_26B
else if (Q5BCK2_26C eq 1 and Q5B2_27 ne 1)                compute HRUSLT=Q5B2_26D
else if (Q5BCK2_26A eq 1 and Q5B2_28B eq 1)                compute HRUSLT=Q5B2_26B+Q5B2_28C

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else if (Q5BCK2_26A eq 1 and Q5B2_28D eq 1)           compute HRUSLT=Q5B2_26B+Q5B2_28E
else if (Q5BCK2_26C eq 1 and Q5B2_28B eq 1)         compute HRUSLT=Q5B2_26D+Q5B2_28C
else if (Q5BCK2_26C eq 1 and Q5B2_28D eq 1)         compute HRUSLT= Q5BCK2_26C+Q5B2_28E
else if (R(52486.) eq -4)                             compute HRUSLT=-4
else if ((Q5B_26A eq -1 or R(52487.) eq -1 or Q5B_26A eq -2 or R(52487.) eq -2) and (Q5B_28B eq -1 or
  Q5B_28D eq -1 or Q5B_28B eq -2 or Q5B_28D eq -2))
compute HRUSLT=-2
else if ((Q5B_26A eq 995 or R(52487.) eq 995) and (Q5B_28B eq 995 or Q5B_28D eq 995))
compute HRUSLT=995
else if ((Q5B_26A eq -1 or R(52487.) eq -1 or Q5B_26A eq -2 or R(52489.) eq -2) and (Q5B_28B eq 995 or
  Q5B_28D eq 995))
compute HRUSLT=995
else if ((Q5B_26A eq 995 or R(52487.) eq 995) and (Q5B_28B eq -1 or Q5B_28D eq -1 or Q5B_28B eq -2 or
  Q5B_28D eq -2))
compute HRUSLT=995
else if ((Q5B_26A eq 995 or R(52487.) eq 995) and R(52489.) ne 1)
compute HRUSLT=995
else if ((Q5B_26A eq -1 or R(52487.) eq -1 or Q5B_26A eq -2 or R(52487.) eq -2) and R(52489.) ne 1)
compute HRUSLT=-2
else if (Q5B_26A eq 1 and (Q5B_28B eq -1 or Q5B_28B eq -2 or Q5B_28B eq 995 or Q5B_28D eq -1 or
  Q5B_28D eq -2 or Q5B_28D eq 995))
compute HRUSLT=Q5B_26B
else if (R(52487.) eq 1 and (Q5B_28B eq -1 or Q5B_28B eq -2 or Q5B_28B eq 995 or Q5B_28D eq -1 or
  Q5B_28D eq -2 or Q5B_28D eq 995))
compute HRUSLT=R(52488.)
else if (Q5B_28B eq 1 and (Q5B_26A eq -1 or Q5B_26A eq -2 or Q5B_26A eq 995 or R(52487.) eq -1 or
  R(52487.) eq -2 or R(52487.) eq 995))
compute HRUSLT=Q5B_28C
else if (Q5B_28D eq 1 and (Q5B_26A eq -1 or Q5B_26A eq -2 or Q5B_26A eq 995 or R(52487.) eq -1 or
  R(52487.) eq -2 or R(52487.) eq 995))
compute HRUSLT=Q5B_28E
else if (Q5B_26A eq 1 and R(52489.) ne 1)             compute HRUSLT=Q5B_26B
else if (R(52487.) eq 1 and R(52489.) ne 1)         compute HRUSLT=R(52488.)
else if (Q5B_26A eq 1 and Q5B_28B eq 1)             compute HRUSLT=Q5B_26B+Q5B_28C
else if (Q5B_26A eq 1 and Q5B_28D eq 1)             compute HRUSLT=Q5B_26B+Q5B_28E
else if (R(52487.) eq 1 and Q5B_28B eq 1)           compute HRUSLT=R(52488.)+Q5B_28C
else if (R(52487.) eq 1 and Q5B_28D eq 1)           compute HRUSLT=R(52487.)+Q5B_28E
else if (R(52360.) eq -4)                             compute HRUSLT=-4
else if ((R(52361.) eq -1 or R(52363.) eq -1 or R(52361.) eq -2 or R(52363.) eq -2) and (R(52367.) eq -1 or
  R(52369.) eq -1 or R(52367.) eq -2 or R(52369.) eq -2))
compute HRUSLT=-2
else if ((R(52361.) eq 995 or R(52363.) eq 995) and (R(52367.) eq 995 or R(52369.) eq 995))
compute HRUSLT=995
else if ((R(52361.) eq -1 or R(52363.) eq -1 or R(52361.) eq -2 or R(52363.) eq -2) and (R(52367.) eq 995 or
  R(52369.) eq 995))
compute HRUSLT=995
else if ((R(52361.) eq 995 or R(52363.) eq 995) and (R(52367.) eq -1 or R(52369.) eq -1 or R(52367.) eq -2 or
  R(52369.) eq -2))
compute HRUSLT=995
else if ((R(52361.) eq 995 or R(52363.) eq 995) and R(52365.) ne 1)
compute HRUSLT=995
else if ((R(52361.) eq -1 or R(52363.) eq -1 or R(52361.) eq -2 or R(52363.) eq -2) and R(52365.) ne 1)
compute HRUSLT=-2
else if (R(52361.) eq 1 and (R(52367.) eq -1 or R(52367.) eq -2 or R(52367.) eq 995 or R(52369.) eq -1 or
  R(52369.) eq -2 or R(52369.) eq 995))
compute HRUSLT=R(52362.)

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```

else if (R(52363.) eq 1 and (R(52367.) eq -1 or R(52367.) eq -2 or R(52367.) eq 995 or R(52369.) eq -1 or
R(52369.) eq -2 or R(52369.) eq 995))
compute HRUSLT=R(52364.)
else if (R(52367.) eq 1 and (R(52361.) eq -1 or R(52361.) eq -2 or R(52361.) eq 995 or R(52363.) eq -1 or
R(52363.) eq -2 or R(52363.) eq 995))
compute HRUSLT=R(52368.)
else if (R(52369.) eq 1 and (R(52361.) eq -1 or R(52361.) eq -2 or R(52361.) eq 995 or R(52363.) eq -1 or
R(52363.) eq -2 or R(52363.) eq 995))
compute HRUSLT=R(52370.)
else if (R(52361.) eq 1 and R(52365.) ne 1)           compute HRUSLT=R(52362.)
else if (R(52363.) eq 1 and R(52365.) ne 1)           compute HRUSLT=R(52364.)
else if (R(52361.) eq 1 and R(52367.) eq 1)           compute HRUSLT=R(52362.)+R(52368.)
else if (R(52361.) eq 1 and R(52369.) eq 1)           compute HRUSLT=R(52362.)+R(52370.)
else if (R(52363.) eq 1 and R(52367.) eq 1)           compute HRUSLT=R(52364.)+R(52368.)
else if (R(52363.) eq 1 and R(52369.) eq 1)           compute HRUSLT=R(52363.)+R(52370.)
else                                                    compute HRUSLT=-3           end if

/* the following lines create the var HRFTPT */
do if (Q5B2_30C eq -4)           compute HRFTPT=-4
else if (Q5B2_30F eq -1 or Q5B2_30G eq -1 or Q5B2_30H eq -1 or Q5B2_30I eq -1)           compute
HRFTPT=-1
else if (Q5B2_30F eq -2 or Q5B2_30G eq -2 or Q5B2_30H eq -2 or Q5B2_30I eq -2)           compute
HRFTPT=-2
else if (Q5B2_30F ne -4)           compute HRFTPT=Q5B2_30F
else if (Q5B2_30G ne -4)           compute HRFTPT=Q5B2_30G
else if (Q5B2_30H ne -4)           compute HRFTPT=Q5B2_30H
else if (Q5B2_30I ne -4)           compute HRFTPT=Q5B2_30I
else if (Q5B_30C eq -4)           compute HRFTPT=-4
else if (Q5B_30F eq -1 or Q5B_30G eq -1 or Q5B_30H eq -1 or Q5B_30I eq -1)           compute HRFTPT=-1
else if (Q5B_30F eq -2 or Q5B_30G eq -2 or Q5B_30H eq -2 or Q5B_30I eq -2)           compute HRFTPT=-2
else if (Q5B_30F ne -4)           compute HRFTPT=Q5B_30F
else if (Q5B_30G ne -4)           compute HRFTPT=Q5B_30G
else if (Q5B_30H ne -4)           compute HRFTPT=Q5B_30H
else if (Q5B_30I ne -4)           compute HRFTPT=Q5B_30I
else if (R(52381.) eq -4)           compute HRFTPT=-4
else if (Q5_30F eq -1 or R(52384.) eq -1 or R(52385.) eq -1 or R(52386.) eq -1)           compute HRFTPT=-1
else if (Q5_30F eq -2 or R(52384.) eq -2 or R(52385.) eq -2 or R(52386.) eq -2)           compute HRFTPT=-2
else if (Q5_30F ne -4)           compute HRFTPT=Q5_30F
else if (R(52384.) ne -4)           compute HRFTPT=R(52384.)
else if (R(52385.) ne -4)           compute HRFTPT=R(52385.)
else if (R(52386.) ne -4)           compute HRFTPT=R(52386.)
else                                                    compute HRFTPT=-3           end if

/* the following lines create the var HRWANT */
do if (Q5B2_33 ne -4)           compute HRWANT=Q5B2_33
else if (Q5B_33 ne -4)           compute HRWANT=Q5B_33
else                                                    compute HRWANT=R(52397.)           end if

/* the following lines create the var HRRSN1 */
do if (Q5B2_34 ne -4)           compute HRRSN1=Q5B2_34
else if (Q5B_34 ne -4)           compute HRRSN1=Q5B_34
else                                                    compute HRRSN1=R(52398.)           end if

/* the following lines create the var HRCK7 */
compute HRCK7=-4
do if ((BUS2 eq 2 or BUS2 eq -2 or BUS2 eq -1) and (HRACT1 LT 15 or HRACT1 eq -2))

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
compute HRCK7=1
else if ((BUS2 eq 2 or BUS2 eq -2 or BUS2 eq -1) and HRACT1 GE 15)
compute HRCK7=2
else if ((HRUSLT GE 35 or HRFTPT eq 1) and HRACTT LT 35 and (HRACT1 ne -1 or HRACT1 ne -2 or
  HRACT2 ne -1 or HRACT2 ne -2))
compute HRCK7=3
else if (HRWANT eq 1 and HRACTT LT 35 and (HRRSN1 eq 1 or HRRSN1 eq 2 or HRRSN1 eq 3))
compute HRCK7=4
else
      compute HRCK7=5
      end if

/* the following lines create the var ABSOT */
do if (HRACT1 eq 0 and HRACT2 eq 0) compute ABSOT=1
else
      compute ABSOT=0
      end if

/* the following lines create the var HRCK6 */
compute HRCK6=-4
do if ((HRACT1 eq 0 and HRACT2 eq 0) and (BUS2 eq 2 or BUS2 eq -1 or BUS2 eq -2))
compute HRCK6=1
else if (ABSOT eq 1)
      compute HRCK6=2
else
      compute HRCK6=3
      end if

/* the following lines create the var WK */
compute WK=-4
do if (R(52318.) ne -4) compute WK=R(52318.)
else if (R(52319.) ne -4) compute WK=R(52319.)
      end if

/* the following lines create the var RETOT */
do if (WK eq 3) compute RETOT=1
else
      compute RETOT=0
      end if

/* the following lines rename the vars */
compute BUS1=R(52321.) compute RET1=R(52335.)
compute IO1COW=R(52314.) compute NLFACT=R(52578.)

/* the following lines create additional variables */
do if (Q5B2_22 ne -4) compute ABSPD=Q5B2_22
else if (R(52481.) ne -4) compute ABSPD=R(52481.)
else
      compute ABSPD=R(52354.)
      end if

do if (Q5B2_65 ne -4) compute LKAVL=Q5B2_65
else if (R(52515.) ne -4) compute LKAVL=R(52515.)
else
      compute LKAVL=R(52437.)
      end if

do if (Q5B2_51 ne -4) compute LAYAVL=Q5B2_51
else if (Q5B_51 ne -4) compute LAYAVL=Q5B_51
else
      compute LAYAVL=R(52410.)
      end if

do if (Q5B2_66 ne -4) compute LKAVR=Q5B2_66
else if (Q5B_66 ne -4) compute LKAVR=Q5B_66
else
      compute LKAVR=R(45540.)
      end if

do if (Q5B2_52 ne -4) compute LAYAVR=Q5B2_52
else if (Q5B_52 ne -4) compute LAYAVR=Q5B_52
else
      compute LAYAVR=R(52411.)
      end if

do if (Q5B2_60 ne -4) compute LK=Q5B2_60
```


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```

else if (R(52503.) ne -4) compute LK=R(52503.)
else compute LK=R(52420.) end if

do if (Q5B2_11 ne -4) compute DIS1=Q5B2_11
else if (R(52455.) ne -4) compute DIS1=R(52455.)
else compute DIS1=R(52336.) end if

do if (Q5B2_12 ne -4) compute DIS2=Q5B2_12
else if (R(52456.) ne -4) compute DIS2=R(52456.)
else compute DIS2=R(52337.) end if

/* the following lines create the var DWWNTO */
do if (RET1 eq 1) compute DWWNTO=1
else if (Q5B2_78 eq 1) compute DWWNTO=1
else if (Q5B2_78 eq 0) compute DWWNTO=2
else if (Q5B2_78 eq -2) compute DWWNTO=-2
else if (Q5B2_78 eq -1) compute DWWNTO=-1
else if (Q5B2_78 eq 3) compute DWWNTO=3
else if (Q5B2_78 eq 4) compute DWWNTO=4
else if (Q5BCK_78 eq 1) compute DWWNTO=1
else if (Q5BCK_78 eq 0) compute DWWNTO=2
else if (Q5BCK_78 eq -2) compute DWWNTO=-2
else if (Q5BCK_78 eq -1) compute DWWNTO=-1
else if (Q5BCK_78 eq 3) compute DWWNTO=3
else if (Q5BCK_78 eq 4) compute DWWNTO=4
else if (Q5_78 eq 1) compute DWWNTO=1
else if (Q5_78 eq 0) compute DWWNTO=2
else if (Q5_78 eq -2) compute DWWNTO=-2
else if (Q5_78 eq -1) compute DWWNTO=-1
else if (Q5_78 eq 3) compute DWWNTO=3
else if (Q5_78 eq 4) compute DWWNTO=4
else compute DWWNTO=-3 end if

/* the following lines create the var DIS */
do if (Q5_9A4 eq -4)
compute DIS=-4
else if (Q5_9D eq -1 or Q5_9E eq -1 or Q5_9F eq -1 or Q5_9G eq -1) or (Q5_9D eq -2 or Q5_9E eq -2 or Q5_9F
eq -2 or Q5_9G eq -2)
compute DIS=-2
else if (Q5_9A4 eq 1 and Q5_9D eq 1) compute DIS=1
else if (Q5_9D eq 0) compute DIS=0
else if (Q5_9A5 eq 1 and Q5_9E eq 1) compute DIS=1
else if (Q5_9E eq 0) compute DIS=0
else if (Q5_9A6 eq 1 and Q5_9F eq 1) compute DIS=1
else if (Q5_9F eq 0) compute DIS=0
else if (Q5_9A7 eq 1 and Q5_9G eq 1) compute DIS=1
else if (Q5_9G eq 0) compute DIS=0
else compute DIS=-3 end if

/* the following lines create IO1COW */
do if (R(52314.) eq 1) compute IO1COW=8
else compute IO1COW=0 end if

/* the following lines create the ESR var approximating MLR */
do if ((WK eq 1 and (HRCK6 eq 3 or HRCK6 eq -4 or HRCK6 eq 99 or HRCK6 eq 999)) or (BUS1 eq 1 and
(HRCK7 eq 2 or HRCK7 eq 3 or HRCK7 eq 4 or HRCK7 eq 5 or HRCK7 eq -4)))

```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
compute ESR=1
else if (ABSPD eq 1 or ABSPD eq 0 or ABSPD eq -1 or ABSPD eq -2)
compute ESR=2
else if ((LAYAVL eq 1 or LAYAVL eq -1 or LAYAVL eq -2) or LAYAVR eq 1)
compute ESR=3
else if ((LKAVL eq 1 or LKAVL eq -1 or LKAVL eq -2) or (LKAVR eq 1 or LKAVR eq 2))
compute ESR=4
else if ((WK eq 3 and AGE GE 50 and RET 1 eq 1 and LK eq 1 and LKAVL eq 0 and (LKAVR eq 3 or LKAVR eq
4 or LKAVR eq -1 or LKAVR eq -2)) or (RET1 eq 0 or LK eq 3 or DWWNTO eq 3) or NLFACT eq 5
or RETOT eq 1)
compute ESR=5
else if (DIS1 eq 1 or DIS2 eq 1 or DIS eq 1) compute ESR=6
else if (R(52314.) eq 1) compute ESR=8
else compute ESR=7 end if

ESR(6)=R(15199.); ESR(7)=R(18906.); ESR(8)=R(22577.);
ESR(9)=R(24451.); ESR(10)=R(28706.); ESR(11)=R(30743.);
ESR(12)=R(34010.); ESR(13)=R(36564.); ESR(14)=R(40069.);
ESR(15)=R(44180.); ESR(16)=R(50810.); ESR(17)=R(51663.);
ESRC(6)=R(15199.01); ESRC(7)=R(18906.01); ESRC(8)=R(22577.01);
ESRC(9)=R(24451.01); ESRC(10)=R(28707.); ESRC(11)=R(30744.);
ESRC(12)=R(34011.); EARC(13)=R(36565.); EARC(14)=R(40070.);
ESRC(15)=R(44181.); ESRC(16)=R(50811.); ESRC(17)=R(51664.);
```

Appendix 1: Employment Status Recode (ESR) Variable Creation

```
/* 1998 VARIABLES */
```

```
/* The programming for the new 1998 ESR variables is done in SPSS */
```

```
/* the following lines create the var AGE */
```

```
compute AGE=41
```

```
/* the following lines construct the var HRACT1 */
```

```
do if (Q5B2_40A eq -4)
```

```
compute HRACT1=-4
```

```
else if (Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or  
Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2)
```

```
compute HRACT1=-2
```

```
else if (Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995)
```

```
compute HRACT1=995
```

```
else if (Q5B2_40B eq 1 and Q5B2_41A ne -4) compute HRACT1=Q5B2_41A
```

```
else if (Q5B2_40C eq 1 and Q5B2_41B ne -4) compute HRACT1=Q5B2_41B
```

```
else if (Q5B2_40D eq 1 and Q5B2_41C ne -4) compute HRACT1=Q5B2_41C
```

```
else if (Q5B2_40E eq 1 or Q5B2_40E eq 0) compute HRACT1=Q5B2_41D
```

```
else if (Q5B_40A eq -4) compute HRACT1=-4
```

```
else if (Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B  
eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2)
```

```
compute HRACT1=-2
```

```
else if (Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995)
```

```
compute HRACT1=995
```

```
else if (Q5B_40B eq 1 and Q5B_41A ne -4) compute HRACT1=Q5B_41A
```

```
else if (Q5B_40C eq 1 and Q5B_41B ne -4) compute HRACT1=Q5B_41B
```

```
else if (Q5B_40D eq 1 and Q5B_41C ne -4) compute HRACT1=Q5B_41C
```

```
else if (Q5B_40E eq 1 or Q5B_40E eq 0) compute HRACT1=Q5B_41D
```

```
else if (Q5_40A eq -4) compute HRACT1=-4
```

```
else if (Q5_41A eq -1 or Q5_41B eq -1 or Q5_41C eq -1 or Q5_41D eq -1 or Q5_41A eq -2 or Q5_41B eq -2 or  
Q5_41C eq -2 or Q5_41D eq -2)
```

```
compute HRACT1=-2
```

```
else if (Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995)
```

```
compute HRACT1=995
```

```
else if (Q5_40B eq 1 and Q5_41A ne -4) compute HRACT1=Q5_41A
```

```
else if (Q5_40C eq 1 and Q5_41B ne -4) compute HRACT1=Q5_41B
```

```
else if (Q5_40D eq 1 and Q5_41C ne -4) compute HRACT1=Q5_41C
```

```
else if (Q5_40E eq 1 or Q5_40E eq 0) compute HRACT1=Q5_41D
```

```
else compute HRACT1=-3 end if
```

```
/* the following lines construct the var HRACT2 */
```

```
do if (Q5B2_42 eq -4 or Q5B2_42 eq 0) compute HRACT2=-4
```

```
else if (Q5B2_43A eq -1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2) compute  
HRACT2=-2
```

```
else if (Q5B2_43A eq 995 or Q5B2_43B eq 995) compute HRACT2=995
```

```
else if (Q5B2_43 eq 1) compute HRACT2=Q5B2_43A
```

```
else if (Q5B2_42 eq 1 and Q5B2_43 eq 0) compute HRACT2=Q5B2_43B
```

```
else if (Q5B_42 eq -4 or Q5B_42 eq 0) compute HRACT2=-4
```

```
else if (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2) compute  
HRACT2=-2
```

```
else if (Q5B_43A eq 995 or Q5B_43B eq 995) compute HRACT2=995
```

```
else if (Q5B_43 eq 1) compute HRACT2=Q5B_43A
```

```
else if (Q5B_42 eq 1 and Q5B_43 eq 0) compute HRACT2=Q5B_43B
```

```
else if (Q5_42 eq -4 or Q5_42 eq 0) compute HRACT2=-4
```

```
else if (Q5_43A eq -1 or Q5_43B eq -1 or Q5_43A eq -2 or Q5_43B eq -2) compute HRACT2=-2
```

```
else if (Q5_43A eq 995 or Q5_43B eq 995) compute HRACT2=995
```

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```
else if (Q5_43 eq 1)                compute HRACT2=Q5_43A
else if (Q5_42 eq 1 and Q5_43 eq 0) compute HRACT2=Q5_43B
else                                compute HRACT2=-3                end if

/* the following lines create the var HRACTT */
do if (Q5B2_40A eq -4)
compute HRACTT=-4
else if ((Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or
Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2) and (Q5B2_43A eq -1 or Q5B2_43B eq -1 or
Q5B2_43A eq -2 or Q5B2_43B eq -2))
compute HRACTT=-2
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and (Q5B2_43A eq
995 or Q5B2_43B eq 995))
compute HRACTT=995
else if ((Q5B2_41A eq -1 or Q5B2_41B eq -1 or Q5B2_41C eq -1 or Q5B2_41D eq -1 or Q5B2_41A eq -2 or
Q5B2_41B eq -2 or Q5B2_41C eq -2 or Q5B2_41D eq -2) and (Q5B2_43A eq 995 or Q5B2_43B eq 995))
compute HRACTT=995
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995 or Q5B2_41A eq 995
or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and (Q5B2_43A eq -1 or Q5B2_43B eq -
1 or Q5B2_43A eq -2 or Q5B2_43B eq -2))
compute HRACTT=995
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43A eq -
1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq 995))
compute HRACTT=Q5B2_41A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43A eq -
1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq 995))
compute HRACTT=Q5B2_41B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43A eq -
1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq 995))
compute HRACTT=Q5B2_41C
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43A eq -
1 or Q5B2_43B eq -1 or Q5B2_43A eq -2 or Q5B2_43B eq -2 or Q5B2_43A eq 995 or Q5B2_43B eq 995))
compute HRACTT=Q5B2_41D
else if ((Q5B2_43B ne -4 and Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995) and (Q5B2_41A eq -
1 or Q5B2_41A eq -2 or Q5B2_41A eq 995 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41B eq 995
or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41C eq 995 or Q5B2_41D eq -1 or Q5B2_41D eq -2 or
Q5B2_41D eq 995))
compute HRACTT=Q5B2_43A
else if ((Q5B2_43A ne -4 and Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995) and (Q5B2_41A eq -
1 or Q5B2_41A eq -2 or Q5B2_41A eq 995 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41B eq 995
or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41C eq 995 or Q5B2_41D eq -1 or Q5B2_41D eq -2 or
Q5B2_41D eq 995))
compute HRACTT=Q5B2_43B
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43A ne -
1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACTT=Q5B2_41A+Q5B2_43A
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and (Q5B2_43B ne -
1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACTT=Q5B2_41A+Q5B2_43B
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43A ne -
1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACTT=Q5B2_41B+Q5B2_43A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and (Q5B2_43B ne -
1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACTT=Q5B2_41B+Q5B2_43B
```

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```
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACCTT=Q5B2_41C+Q5B2_43A
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and (Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACCTT=Q5B2_41C+Q5B2_43B
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43A ne -1 and Q5B2_43A ne -2 and Q5B2_43A ne 995 and Q5B2_43A ne -4))
compute HRACCTT=Q5B2_41D+Q5B2_43A
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and (Q5B2_43B ne -1 and Q5B2_43B ne -2 and Q5B2_43B ne 995 and Q5B2_43B ne -4))
compute HRACCTT=Q5B2_41D+Q5B2_43B
else if ((Q5B2_41A ne -4 and Q5B2_41A ne -1 and Q5B2_41A ne -2 and Q5B2_41A ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41A
else if ((Q5B2_41B ne -4 and Q5B2_41B ne -1 and Q5B2_41B ne -2 and Q5B2_41B ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41B
else if ((Q5B2_41C ne -4 and Q5B2_41C ne -1 and Q5B2_41C ne -2 and Q5B2_41C ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41C
else if ((Q5B2_41D ne -4 and Q5B2_41D ne -1 and Q5B2_41D ne -2 and Q5B2_41D ne 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACCTT=Q5B2_41D
else if ((Q5B2_41A eq -1 or Q5B2_41A eq -2 or Q5B2_41B eq -1 or Q5B2_41B eq -2 or Q5B2_41C eq -1 or Q5B2_41C eq -2 or Q5B2_41D eq -1 or Q5B2_41D eq -2) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACCTT=-2
else if ((Q5B2_41A eq 995 or Q5B2_41B eq 995 or Q5B2_41C eq 995 or Q5B2_41D eq 995) and Q5B2_43A eq -4 and Q5B2_43B eq -4)
compute HRACCTT=995

else if (Q5B_40A eq -4)
compute HRACCTT=-4
else if ((Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2) and (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2))
compute HRACCTT=-2
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and (Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=995
else if ((Q5B_41A eq -1 or Q5B_41B eq -1 or Q5B_41C eq -1 or Q5B_41D eq -1 or Q5B_41A eq -2 or Q5B_41B eq -2 or Q5B_41C eq -2 or Q5B_41D eq -2) and (Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=995
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995 or Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2))
compute HRACCTT=995
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43A eq -1 or Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41C
```

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```
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43A eq -1 or
  Q5B_43B eq -1 or Q5B_43A eq -2 or Q5B_43B eq -2 or Q5B_43A eq 995 or Q5B_43B eq 995))
compute HRACCTT=Q5B_41D
else if ((Q5B_43B ne -4 and Q5B_43A ne -1 and Q5B_43A ne -2 and Q5B_43A ne 995) and (Q5B_41A eq -1 or
  Q5B_41A eq -2 or Q5B_41A eq 995 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41B eq 995 or
  Q5B_41C eq -1 or Q5B_41C eq -2 or Q5B_41C eq 995 or Q5B_41D eq -1 or Q5B_41D eq -2 or Q5B_41D
  eq 995))
compute HRACCTT=Q5B_43A
else if ((Q5B_43A ne -4 and Q5B_43B ne -1 and Q5B_43B ne -2 and Q5B_43B ne 995) and (Q5B_41A eq -1 or
  Q5B_41A eq -2 or Q5B_41A eq 995 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41B eq 995 or
  Q5B_41C eq -1 or Q5B_41C eq -2 or Q5B_41C eq 995 or Q5B_41D eq -1 or Q5B_41D eq -2 or Q5B_41D
  eq 995))
compute HRACCTT=Q5B_43B
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41A+Q5B_43A
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41A+Q5B_43B
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41B+Q5B_43A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41B+Q5B_43B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41C+Q5B_43A
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41C+Q5B_43B
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43A ne -1 and
  Q5B_43A ne -2 and Q5B_43A ne 995 and Q5B_43A ne -4))
compute HRACCTT=Q5B_41D+Q5B_43A
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and (Q5B_43B ne -1 and
  Q5B_43B ne -2 and Q5B_43B ne 995 and Q5B_43B ne -4))
compute HRACCTT=Q5B_41D+Q5B_43B
else if ((Q5B_41A ne -4 and Q5B_41A ne -1 and Q5B_41A ne -2 and Q5B_41A ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41A
else if ((Q5B_41B ne -4 and Q5B_41B ne -1 and Q5B_41B ne -2 and Q5B_41B ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41B
else if ((Q5B_41C ne -4 and Q5B_41C ne -1 and Q5B_41C ne -2 and Q5B_41C ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41C
else if ((Q5B_41D ne -4 and Q5B_41D ne -1 and Q5B_41D ne -2 and Q5B_41D ne 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=Q5B_41D
else if ((Q5B_41A eq -1 or Q5B_41A eq -2 or Q5B_41B eq -1 or Q5B_41B eq -2 or Q5B_41C eq -1 or Q5B_41C
  eq -2 or Q5B_41D eq -1 or Q5B_41D eq -2) and Q5B_43A eq -4 and Q5B_43B eq -4)
compute HRACCTT=-2
else if ((Q5B_41A eq 995 or Q5B_41B eq 995 or Q5B_41C eq 995 or Q5B_41D eq 995) and Q5B_43A eq -4 and
  Q5B_43B eq -4)
compute HRACCTT=995
else if (Q5_40A eq -4)
```

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```
compute HRACCTT=-4
else if ((Q5_41A eq -1 or Q5_41B eq -1 or Q5_41C eq -1 or Q5_41D eq -1 or Q5_41A eq -2 or Q5_41B eq -2 or
  Q5_41C eq -2 or Q5_41D eq -2) and (Q5_43A eq -1 or Q5_43B eq -1 or Q5_43A eq -2 or Q5_43B eq -2))
compute HRACCTT=-2
else if ((Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995) and (Q5_43A eq 995 or
  Q5_43B eq 995))
compute HRACCTT=995
else if ((Q5_41A eq -1 or Q5_41B eq -1 or Q5_41C eq -1 or Q5_41D eq -1 or Q5_41A eq -2 or Q5_41B eq -2 or
  Q5_41C eq -2 or Q5_41D eq -2) and (Q5_43A eq 995 or Q5_43B eq 995))
compute HRACCTT=995
else if ((Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995 or Q5_41A eq 995 or Q5_41B eq
  995 or Q5_41C eq 995 or Q5_41D eq 995) and (Q5_43A eq -1 or Q5_43B eq -1 or Q5_43A eq -2 or
  Q5_43B eq -2))
compute HRACCTT=995
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACCTT=Q5_41A
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACCTT=Q5_41B
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACCTT=Q5_41C
else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and (Q5_43A eq -1 or Q5_43B
  eq -1 or Q5_43A eq -2 or Q5_43B eq -2 or Q5_43A eq 995 or Q5_43B eq 995))
compute HRACCTT=Q5_41D
else if ((Q5_43B ne -4 and Q5_43A ne -1 and Q5_43A ne -2 and Q5_43A ne 995) and (Q5_41A eq -1 or Q5_41A
  eq -2 or Q5_41A eq 995 or Q5_41B eq -1 or Q5_41B eq -2 or Q5_41B eq 995 or Q5_41C eq -1 or Q5_41C
  eq -2 or Q5_41C eq 995 or Q5_41D eq -1 or Q5_41D eq -2 or Q5_41D eq 995))
compute HRACCTT=Q5_43A
else if ((Q5_43A ne -4 and Q5_43B ne -1 and Q5_43B ne -2 and Q5_43B ne 995) and (Q5_41A eq -1 or Q5_41A
  eq -2 or Q5_41A eq 995 or Q5_41B eq -1 or Q5_41B eq -2 or Q5_41B eq 995 or Q5_41C eq -1 or Q5_41C
  eq -2 or Q5_41C eq 995 or Q5_41D eq -1 or Q5_41D eq -2 or Q5_41D eq 995))
compute HRACCTT=Q5_43B
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACCTT=Q5_41A+Q5_43A
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and (Q5_43B ne -1 and Q5_43B
  ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACCTT=Q5_41A+Q5_43B
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACCTT=Q5_41B+Q5_43A
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and (Q5_43B ne -1 and Q5_43B
  ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACCTT=Q5_41B+Q5_43B
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACCTT=Q5_41C+Q5_43A
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and (Q5_43B ne -1 and Q5_43B
  ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACCTT=Q5_41C+Q5_43B
else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and (Q5_43A ne -1 and Q5_43A
  ne -2 and Q5_43A ne 995 and Q5_43A ne -4))
compute HRACCTT=Q5_41D+Q5_43A
```

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else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and (Q5_43B ne -1 and Q5_43B
    ne -2 and Q5_43B ne 995 and Q5_43B ne -4))
compute HRACCT=Q5_41D+Q5_43B
else if ((Q5_41A ne -4 and Q5_41A ne -1 and Q5_41A ne -2 and Q5_41A ne 995) and Q5_43A eq -4 and Q5_43B
    eq -4)
compute HRACCT=Q5_41A
else if ((Q5_41B ne -4 and Q5_41B ne -1 and Q5_41B ne -2 and Q5_41B ne 995) and Q5_43A eq -4 and Q5_43B
    eq -4)
compute HRACCT=Q5_41B
else if ((Q5_41C ne -4 and Q5_41C ne -1 and Q5_41C ne -2 and Q5_41C ne 995) and Q5_43A eq -4 and Q5_43B
    eq -4)
compute HRACCT=Q5_41C
else if ((Q5_41D ne -4 and Q5_41D ne -1 and Q5_41D ne -2 and Q5_41D ne 995) and Q5_43A eq -4 and Q5_43B
    eq -4)
compute HRACCT=Q5_41D
else if ((Q5_41A eq -1 or Q5_41A eq -2 or Q5_41B eq -1 or Q5_41B eq -2 or Q5_41C eq -1 or Q5_41C eq -2 or
    Q5_41D eq -1 or Q5_41D eq -2) and Q5_43A eq -4 and Q5_43B eq -4)
compute HRACCT=-2
else if ((Q5_41A eq 995 or Q5_41B eq 995 or Q5_41C eq 995 or Q5_41D eq 995) and Q5_43A eq -4 and Q5_43B
    eq -4)
compute HRACCT=995
else
    compute HRACCT=-3
end if

/* the following lines creates the var BUS2 */
do if (Q5_6 eq -4)
    compute BUS2=-4
else if (Q5_6 eq -1)
    compute BUS2=-1
else if (Q5_6 eq -2)
    compute BUS2=-2
else if (Q5_7 eq -1 or Q5_8 eq -1)
    compute BUS2=-1
else if (Q5_7 eq -2 or Q5_8 eq -2)
    compute BUS2=-2
else if (Q5_7 eq 1 or Q5_8 eq 1)
    compute BUS2=1
else if (Q5_8 eq 0)
    compute BUS2=2 /* this should normally be 0 */
else
    compute BUS2=-3
end if

/* the following lines create the var HRUSL1 */
do if (Q5B2_25 eq -4)
    compute HRUSL1=-4
else if (Q5B2_26A eq -1 or Q5B2_26C eq -1 or Q5B2_26A eq -2 or Q5B2_26C eq -2)
    compute HRUSL1=-
    2
else if (Q5B2_26A eq 995 or Q5B2_26C eq 995)
    compute HRUSL1=995
else if (Q5B2_26A eq 1)
    compute HRUSL1=Q5B2_26B
else if (Q5B2_26C eq 1)
    compute HRUSL1=Q5B2_26D
else if (Q5B_25 eq -4)
    compute HRUSL1=-4
else if (Q5B_26A eq -1 or Q5B_26C eq -1 or Q5B_26A eq -2 or Q5B_26C eq -2)
    compute HRUSL1=-
    2
else if (Q5B_26A eq 995 or Q5B_26C eq 995)
    compute HRUSL1=995
else if (Q5B_26A eq 1)
    compute HRUSL1=Q5B_26B
else if (Q5B_26C eq 1)
    compute HRUSL1=Q5B_26D
else if (Q5_25 eq -4)
    compute HRUSL1=-4
else if (Q5_26A eq -1 or Q5_26C eq -1 or Q5_26A eq -2 or Q5_26C eq -2)
    compute HRUSL1=-
    2
else if (Q5_26A eq 995 or Q5_26C eq 995)
    compute HRUSL1=995
else if (Q5_26A eq 1)
    compute HRUSL1=Q5_26B
else if (Q5_26C eq 1)
    compute HRUSL1=Q5_26D
else
    compute HRUSL1=-3
end if

/* the following lines create the var HRUSL2 */
do if (Q5B2_28A eq -4)
    compute HRUSL2=-4

```


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else if (Q5B2_28B eq -1 or Q5B2_28D eq -1 or Q5B2_28B eq -2 or Q5B2_28D eq -2)      compute HRUSL2=-
      2
else if (Q5B2_28B eq 995 or Q5B2_28D eq 995)      compute HRUSL2=995
else if (Q5B2_28B eq 1)      compute HRUSL2=Q5B2_28C
else if (Q5B2_28D eq 1)      compute HRUSL2=Q5B2_28E
else if (Q5B_28A eq -4)      compute HRUSL2=-4
else if (Q5B_28B eq -1 or Q5B_28D eq -1 or Q5B_28B eq -2 or Q5B_28D eq -2)      compute HRUSL2=-
      2
else if (Q5B_28B eq 995 or Q5B_28D eq 995)      compute HRUSL2=995
else if (Q5B_28B eq 1)      compute HRUSL2=Q5B_28C
else if (Q5B_28D eq 1)      compute HRUSL2=Q5B_28E
else if (Q5_28A eq -4)      compute HRUSL2=-4
else if (Q5_28B eq -1 or Q5_28D eq -1 or Q5_28B eq -2 or Q5_28D eq -2)      compute HRUSL2=-
      2
else if (Q5_28B eq 995 or Q5_28D eq 995)      compute HRUSL2=995
else if (Q5_28B eq 1)      compute HRUSL2=Q5_28C
else if (Q5_28D eq 1)      compute HRUSL2=Q5_28E
else      compute HRUSL2=-3      end if

/* the following lines create the var HRUSLT */
do if (Q5B2_25 eq -4)
compute HRUSLT=-4
else if ((Q5B2_26A eq -1 or Q5B2_26C eq -1 or Q5B2_26A eq -2 or Q5B2_26C eq -2) and (Q5B2_28B eq -1 or
      Q5B2_28D eq -1 or Q5B2_28B eq -2 or Q5B2_28D eq -2))
compute HRUSLT=-2
else if ((Q5B2_26A eq 995 or Q5B2_26C eq 995) and (Q5B2_28B eq 995 or Q5B2_28D eq 995))
compute HRUSLT=995
else if ((Q5B2_26A eq -1 or Q5B2_26C eq -1 or Q5B2_26A eq -2 or Q5B2_26C eq -2) and (Q5B2_28B eq 995 or
      Q5B2_28D eq 995))
compute HRUSLT=995
else if ((Q5B2_26A eq 995 or Q5B2_26C eq 995) and (Q5B2_28B eq -1 or Q5B2_28D eq -1 or Q5B2_28B eq -2
      or Q5B2_28D eq -2))
compute HRUSLT=995
else if ((Q5B2_26A eq 995 or Q5B2_26C eq 995) and Q5B2_27 ne 1)
compute HRUSLT=995
else if ((Q5B2_26A eq -1 or Q5B2_26C eq -1 or Q5B2_26A eq -2 or Q5B2_26C eq -2) and Q5B2_27 ne 1)
compute HRUSLT=-2
else if (Q5B2_26A eq 1 and (Q5B2_28B eq -1 or Q5B2_28B eq -2 or Q5B2_28B eq 995 or Q5B2_28D eq -1 or
      Q5B2_28D eq -2 or Q5B2_28D eq 995))
compute HRUSLT=Q5B2_26B
else if (Q5B2_26C eq 1 and (Q5B2_28B eq -1 or Q5B2_28B eq -2 or Q5B2_28B eq 995 or Q5B2_28D eq -1 or
      Q5B2_28D eq -2 or Q5B2_28D eq 995))
compute HRUSLT=Q5B2_26D
else if (Q5B2_28B eq 1 and (Q5B2_26A eq -1 or Q5B2_26A eq -2 or Q5B2_26A eq 995 or Q5B2_26C eq -1 or
      Q5B2_26C eq -2 or Q5B2_26C eq 995))
compute HRUSLT=Q5B2_28C
else if (Q5B2_28D eq 1 and (Q5B2_26A eq -1 or Q5B2_26A eq -2 or Q5B2_26A eq 995 or Q5B2_26C eq -1 or
      Q5B2_26C eq -2 or Q5B2_26C eq 995))
compute HRUSLT=Q5B2_28E
else if (Q5B2_26A eq 1 and Q5B2_27 ne 1)      compute HRUSLT=Q5B2_26B
else if (Q5B2_26C eq 1 and Q5B2_27 ne 1) compute HRUSLT=Q5B2_26D
else if (Q5B2_26A eq 1 and Q5B2_28B eq 1)      compute HRUSLT=Q5B2_26B+Q5B2_28C
else if (Q5B2_26A eq 1 and Q5B2_28D eq 1)      compute HRUSLT=Q5B2_26B+Q5B2_28E
else if (Q5B2_26C eq 1 and Q5B2_28B eq 1)      compute HRUSLT=Q5B2_26D+Q5B2_28C
else if (Q5B2_26C eq 1 and Q5B2_28D eq 1)      compute HRUSLT=Q5B2_26C+Q5B2_28E
else if (Q5B_25 eq -4)      compute HRUSLT=-4

```

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```
else if ((Q5B_26A eq -1 or Q5B_26C eq -1 or Q5B_26A eq -2 or Q5B_26C eq -2) and (Q5B_28B eq -1 or
  Q5B_28D eq -1 or Q5B_28B eq -2 or Q5B_28D eq -2))
compute HRUSLT=-2
else if ((Q5B_26A eq 995 or Q5B_26C eq 995) and (Q5B_28B eq 995 or Q5B_28D eq 995))
compute HRUSLT=995
else if ((Q5B_26A eq -1 or Q5B_26C eq -1 or Q5B_26A eq -2 or Q5B_26C eq -2) and (Q5B_28B eq 995 or
  Q5B_28D eq 995))
compute HRUSLT=995
else if ((Q5B_26A eq 995 or Q5B_26C eq 995) and (Q5B_28B eq -1 or Q5B_28D eq -1 or Q5B_28B eq -2 or
  Q5B_28D eq -2))
compute HRUSLT=995
else if ((Q5B_26A eq 995 or Q5B_26C eq 995) and Q5B_27 ne 1)
compute HRUSLT=995
else if ((Q5B_26A eq -1 or Q5B_26C eq -1 or Q5B_26A eq -2 or Q5B_26C eq -2) and Q5B_27 ne 1)
compute HRUSLT=-2
else if (Q5B_26A eq 1 and (Q5B_28B eq -1 or Q5B_28B eq -2 or Q5B_28B eq 995 or Q5B_28D eq -1 or
  Q5B_28D eq -2 or Q5B_28D eq 995))
compute HRUSLT=Q5B_26B
else if (Q5B_26C eq 1 and (Q5B_28B eq -1 or Q5B_28B eq -2 or Q5B_28B eq 995 or Q5B_28D eq -1 or
  Q5B_28D eq -2 or Q5B_28D eq 995))
compute HRUSLT=Q5B_26D
else if (Q5B_28B eq 1 and (Q5B_26A eq -1 or Q5B_26A eq -2 or Q5B_26A eq 995 or Q5B_26C eq -1 or
  Q5B_26C eq -2 or Q5B_26C eq 995))
compute HRUSLT=Q5B_28C
else if (Q5B_28D eq 1 and (Q5B_26A eq -1 or Q5B_26A eq -2 or Q5B_26A eq 995 or Q5B_26C eq -1 or
  Q5B_26C eq -2 or Q5B_26C eq 995))
compute HRUSLT=Q5B_28E
else if (Q5B_26A eq 1 and Q5B_27 ne 1) compute HRUSLT=Q5B_26B
else if (Q5B_26C eq 1 and Q5B_27 ne 1) compute HRUSLT=Q5B_26D
else if (Q5B_26A eq 1 and Q5B_28B eq 1) compute HRUSLT=Q5B_26B+Q5B_28C
else if (Q5B_26A eq 1 and Q5B_28D eq 1) compute HRUSLT=Q5B_26B+Q5B_28E
else if (Q5B_26C eq 1 and Q5B_28B eq 1) compute HRUSLT=Q5B_26D+Q5B_28C
else if (Q5B_26C eq 1 and Q5B_28D eq 1) compute HRUSLT=Q5B_26C+Q5B_28E
else if (Q5_25 eq -4) compute HRUSLT=-4
else if ((Q5_26A eq -1 or Q5_26C eq -1 or Q5_26A eq -2 or Q5_26C eq -2) and (Q5_28B eq -1 or Q5_28D eq -1
  or Q5_28B eq -2 or Q5_28D eq -2))
compute HRUSLT=-2
else if ((Q5_26A eq 995 or Q5_26C eq 995) and (Q5_28B eq 995 or Q5_28D eq 995))
compute HRUSLT=995
else if ((Q5_26A eq -1 or Q5_26C eq -1 or Q5_26A eq -2 or Q5_26C eq -2) and (Q5_28B eq 995 or Q5_28D eq
  995))
compute HRUSLT=995
else if ((Q5_26A eq 995 or Q5_26C eq 995) and (Q5_28B eq -1 or Q5_28D eq -1 or Q5_28B eq -2 or Q5_28D eq -
  2))
compute HRUSLT=995
else if ((Q5_26A eq 995 or Q5_26C eq 995) and Q5_27 ne 1)
compute HRUSLT=995
else if ((Q5_26A eq -1 or Q5_26C eq -1 or Q5_26A eq -2 or Q5_26C eq -2) and Q5_27 ne 1)
compute HRUSLT=-2
else if (Q5_26A eq 1 and (Q5_28B eq -1 or Q5_28B eq -2 or Q5_28B eq 995 or Q5_28D eq -1 or Q5_28D eq -2 or
  Q5_28D eq 995))
compute HRUSLT=Q5_26B
else if (Q5_26C eq 1 and (Q5_28B eq -1 or Q5_28B eq -2 or Q5_28B eq 995 or Q5_28D eq -1 or Q5_28D eq -2 or
  Q5_28D eq 995))
compute HRUSLT=Q5_26D
```

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```

else if (Q5_28B eq 1 and (Q5_26A eq -1 or Q5_26A eq -2 or Q5_26A eq 995 or Q5_26C eq -1 or Q5_26C eq -2 or
    Q5_26C eq 995))
compute HRUSLT=Q5_28C
else if (Q5_28D eq 1 and (Q5_26A eq -1 or Q5_26A eq -2 or Q5_26A eq 995 or Q5_26C eq -1 or Q5_26C eq -2 or
    Q5_26C eq 995))
compute HRUSLT=Q5_28E
else if (Q5_26A eq 1 and Q5_27 ne 1)           compute HRUSLT=Q5_26B
else if (Q5_26C eq 1 and Q5_27 ne 1)           compute HRUSLT=Q5_26D
else if (Q5_26A eq 1 and Q5_28B eq 1)           compute HRUSLT=Q5_26B+Q5_28C
else if (Q5_26A eq 1 and Q5_28D eq 1)           compute HRUSLT=Q5_26B+Q5_28E
else if (Q5_26C eq 1 and Q5_28B eq 1)           compute HRUSLT=Q5_26D+Q5_28C
else if (Q5_26C eq 1 and Q5_28D eq 1)           compute HRUSLT=Q5_26C+Q5_28E
else
compute HRUSLT=-3                               end if

/* the following lines create the var HRFTPT */
do if (Q5B2_30C eq -4)           compute HRFTPT=-4
else if (Q5B2_30F eq -1 or Q5B2_30G eq -1 or Q5B2_30H eq -1 or Q5B2_30I eq -1)           compute HRFTPT=-
1
else if (Q5B2_30F eq -2 or Q5B2_30G eq -2 or Q5B2_30H eq -2 or Q5B2_30I eq -2)           compute HRFTPT=-
2
else if (Q5B2_30F ne -4)           compute HRFTPT=Q5B2_30F
else if (Q5B2_30G ne -4)           compute HRFTPT=Q5B2_30G
else if (Q5B2_30H ne -4)           compute HRFTPT=Q5B2_30H
else if (Q5B2_30I ne -4)           compute HRFTPT=Q5B2_30I
else if (Q5B_30C eq -4)           compute HRFTPT=-4
else if (Q5B_30F eq -1 or Q5B_30G eq -1 or Q5B_30H eq -1 or Q5B_30I eq -1)           compute HRFTPT=-1
else if (Q5B_30F eq -2 or Q5B_30G eq -2 or Q5B_30H eq -2 or Q5B_30I eq -2)           compute HRFTPT=-2
else if (Q5B_30F ne -4)           compute HRFTPT=Q5B_30F
else if (Q5B_30G ne -4)           compute HRFTPT=Q5B_30G
else if (Q5B_30H ne -4)           compute HRFTPT=Q5B_30H
else if (Q5B_30I ne -4)           compute HRFTPT=Q5B_30I
else if (Q5_30C eq -4)           compute HRFTPT=-4
else if (Q5_30F eq -1 or Q5_30G eq -1 or Q5_30H eq -1 or Q5_30I eq -1)           compute HRFTPT=-
1
else if (Q5_30F eq -2 or Q5_30G eq -2 or Q5_30H eq -2 or Q5_30I eq -2)           compute HRFTPT=-
2
else if (Q5_30F ne -4)           compute HRFTPT=Q5_30F
else if (Q5_30G ne -4)           compute HRFTPT=Q5_30G
else if (Q5_30H ne -4)           compute HRFTPT=Q5_30H
else if (Q5_30I ne -4)           compute HRFTPT=Q5_30I
else
compute HRFTPT=-3                               end if

/* the following lines create the var HRWANT */
do if (Q5B2_33 ne -4)           compute HRWANT=Q5B2_33
else if (Q5B_33 ne -4)           compute HRWANT=Q5B_33
else
compute HRWANT=Q5_33                               end if

/* the following lines create the var HRRSN1 */
do if (Q5B2_34 ne -4)           compute HRRSN1=Q5B2_34
else if (Q5B_34 ne -4)           compute HRRSN1=Q5B_34
else
compute HRRSN1=Q5_34                               end if

/* the following lines create the var HRCK7 */
compute HRCK7=-4
do if ((BUS2 eq 2 or BUS2 eq -2 or BUS2 eq -1) and (HRACT1 LT 15 or HRACT1 eq -2))
compute HRCK7=1

```

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```
else if ((BUS2 eq 2 or BUS2 eq -2 or BUS2 eq -1) and HRACT1 GE 15)
compute HRCK7=2
else if ((HRUSLT GE 35 or HRFTPT eq 1) and HRACTT LT 35 and (HRACT1 ne -1 or HRACT1 ne -2 or
HRACT2 ne -1 or HRACT2 ne -2))
compute HRCK7=3
else if (HRWANT eq 1 and HRACTT LT 35 and (HRRSN1 eq 1 or HRRSN1 eq 2 or HRRSN1 eq 3))
compute HRCK7=4
else
compute HRCK7=5
end if

/* the following lines create the var ABSOT */
do if (HRACT1 eq 0 and HRACT2 eq 0) compute ABSOT=1
else
compute ABSOT=0
end if

/* the following lines create the var HRCK6 */
compute HRCK6=-4
do if ((HRACT1 eq 0 and HRACT2 eq 0) and (BUS2 eq 2 or BUS2 eq -1 or BUS2 eq -2))
compute HRCK6=1
else if (ABSOT eq 1)
compute HRCK6=2
else
compute HRCK6=3
end if

/* the following lines create the var WK */
compute WK=-4
do if (Q5_2 ne -4)
compute WK=Q5_2
else if (Q5_3 ne -4)
compute WK=Q5_3
end if

/* the following lines create the var RETOT */
do if (WK eq 2)
compute RETOT=1
else
compute RETOT=0
end if

/* the following lines rename the vars */
compute BUS1=Q5_5
compute RET1=Q5_10
compute IO1COW=Q5_JUMP
compute NLFACT=Q5_93

/* the following lines create additional variables */
do if (Q5B2_22 ne -4)
compute ABSPD=Q5B2_22
else if (Q5B_22 ne -4)
compute ABSPD=Q5B_22
else
compute ABSPD=Q5_22
end if

do if (Q5B2_65 ne -4)
compute LKAVL=Q5B2_65
else if (Q5B_65 ne -4)
compute LKAVL=Q5B_65
else
compute LKAVL=Q5_65
end if

do if (Q5B2_51 ne -4)
compute LAYAVL=Q5B2_51
else if (Q5B_51 ne -4)
compute LAYAVL=Q5B_51
else
compute LAYAVL=Q5_51
end if

do if (Q5B2_66 ne -4)
compute LKAVR=Q5B2_66
else if (Q5B_66 ne -4)
compute LKAVR=Q5B_66
else
compute LKAVR=Q5_66
end if

do if (Q5B2_52 ne -4)
compute LAYAVR=Q5B2_52
else if (Q5B_52 ne -4)
compute LAYAVR=Q5B_52
else
compute LAYAVR=Q5_52
end if

do if (Q5B2_60 ne -4)
compute LK=Q5B2_60
else if (Q5B_60 ne -4)
compute LK=Q5B_60
```

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```

else                                     compute LK=Q5_60                             end if

do if (Q5B2_11 ne -4)                   compute DIS1=Q5B2_11
else if (Q5B_11 ne -4)                  compute DIS1=Q5B_11
else                                     compute DIS1=Q5_11                             end if

do if (Q5B2_12 ne -4)                   compute DIS2=Q5B2_12
else if (Q5B_12 ne -4)                  compute DIS2=Q5B_12
else                                     compute DIS2=Q5_12                             end if

/* the following lines create the var DWWNTO */
do if (RET1 eq 1)                        compute DWWNTO=1
else if (Q5B2_78 eq 1)                  compute DWWNTO=1
else if (Q5B2_78 eq 0)                  compute DWWNTO=2
else if (Q5B2_78 eq -2)                 compute DWWNTO=-2
else if (Q5B2_78 eq -1)                 compute DWWNTO=-1
else if (Q5B2_78 eq 3)                  compute DWWNTO=3
else if (Q5B2_78 eq 4)                  compute DWWNTO=4
else if (Q5B_78 eq 1)                   compute DWWNTO=1
else if (Q5B_78 eq 0)                   compute DWWNTO=2
else if (Q5B_78 eq -2)                  compute DWWNTO=-2
else if (Q5B_78 eq -1)                  compute DWWNTO=-1
else if (Q5B_78 eq 3)                   compute DWWNTO=3
else if (Q5B_78 eq 4)                   compute DWWNTO=4
else if (Q5_78 eq 1)                    compute DWWNTO=1
else if (Q5_78 eq 0)                    compute DWWNTO=2
else if (Q5_78 eq -2)                   compute DWWNTO=-2
else if (Q5_78 eq -1)                   compute DWWNTO=-1
else if (Q5_78 eq 3)                    compute DWWNTO=3
else if (Q5_78 eq 4)                    compute DWWNTO=4
else                                     compute DWWNTO=-3                             end if

/* the following lines create the var DIS */
do if (Q5_9A4 eq -4)                     compute DIS=-4
else if (Q5_9D eq -1 or Q5_9E eq -1 or Q5_9F eq -1 or Q5_9G eq -1) or (Q5_9D eq -2 or Q5_9E eq -2 or Q5_9F
    eq -2 or Q5_9G eq -2)
compute DIS=-2
else if (Q5_9A4 eq 1 and Q5_9D eq 1)     compute DIS=1
else if (Q5_9D eq 0)                     compute DIS=0
else if (Q5_9A5 eq 1 and Q5_9E eq 1)     compute DIS=1
else if (Q5_9E eq 0)                     compute DIS=0
else if (Q5_9A6 eq 1 and Q5_9F eq 1)     compute DIS=1
else if (Q5_9F eq 0)                     compute DIS=0
else if (Q5_9A7 eq 1 and Q5_9G eq 1)     compute DIS=1
else if (Q5_9G eq 0)                     compute DIS=0
else                                     compute DIS=-3                             end if

/* the following lines create IO1COW */
do if (Q5_JUMP eq 1)                     compute IO1COW=8
else                                     compute IO1COW=0                             end if

/* the following lines create the ESR var approximating MLR */
do if ((WK eq 1 and (HRCK6 eq 3 or HRCK6 eq -4 or HRCK6 eq 99 or HRCK6 eq 999)) or (BUS1 eq 1 and
    (HRCK7 eq 2 or HRCK7 eq 3 or HRCK7 eq 4 or HRCK7 eq 5 or HRCK7 eq -4)))
compute ESR=1
else if (ABSPD eq 1 or ABSPD eq 0 or ABSPD eq -1 or ABSPD eq -2)

```

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```
compute ESR=2
else if ((LAYAVL eq 1 or LAYAVL eq -1 or LAYAVL eq -2) or LAYAVR eq 1)
compute ESR=3
else if ((LKAVL eq 1 or LKAVL eq -1 or LKAVL eq -2) or (LKAVR eq 1 or LKAVR eq 2))
compute ESR=4
else if ((WK eq 3 and AGE GE 50 and RET1 eq 1 and LK eq 1 and LKAVL eq 0 and (LKAVR eq 3 or LKAVR eq
4 or LKAVR eq -1 or LKAVR eq -2)) or (RET1 eq 0 or LK eq 3 or DWWNTO eq 3) or NLFACT eq 5 or
RETOT eq 1)
compute ESR=5
else if (DIS1 eq 1 or DIS2 eq 1 or DIS eq 1) compute ESR=6
else if (Q5_JUMP eq 1) compute ESR=8
/* else if (IO1COW eq 8) */ /* compute ESR=7 */
else compute ESR=7 end if

/* COLLAPSED EMPLOYMENT STATUS RECODE 1998 */

do if (ESR = -5) compute ESRC=-5
else if (ESR = 1 or ESR = 2) compute ESRC=1
else if (ESR = 3 or ESR = 4) compute ESRC=2
else if (ESR >= 4 and ESR <= 7) compute ESRC=3
else compute ESRC=ESR end if

if (Q5_JUMP = 1) ESRC=4
```

