```
        ISOPC1T= ISOPC1 TABLE
        IOPC   = INDUSTRIAL OUTPUT PER CAPITA (DOLLARS/
                 PERSON-YEAR)

    ISOPC2.K=TABHL(ISOPC2T,IOPC.K,0,1600,200)              62, A
    ISOPC2T=40/300/640/1000/1220/1450/1650/1800/2000       62.1, T
        ISOPC2 = ISOPC, VALUE AFTER TIME=PYEAR (DOLLARS/
                 PERSON-YEAR)
        TABHL  = A FUNCTION WITH VALUES SPECIFIED BY A TABLE
        ISOPC2T= ISOPC2 TABLE
        IOPC   = INDUSTRIAL OUTPUT PER CAPITA (DOLLARS/
                 PERSON-YEAR)

    FIOAS.K=CLIP(FIOAS2.K,FIOAS1.K,TIME.K,PYEAR)           63, A
        FIOAS  = FRACTION OF INDUSTRIAL OUTPUT ALLOCATED TO
                 SERVICES (DIMENSIONLESS)
        CLIP   = A FUNCTION SWITCHED DURING THE RUN
        FIOAS2 = FIOAS, VALUE AFTER TIME=PYEAR
                 (DIMENSIONLESS)
        FIOAS1 = FIOAS, VALUE BEFORE TIME=PYEAR
                 (DIMENSIONLESS)
        TIME   = CURRENT TIME IN THE SIMULATION RUN
        PYEAR  = YEAR NEW POLICY IS IMPLEMENTED (YEAR)


    FIOAS1.K=TABHL(FIOAS1T,SOPC.K/ISOPC.K,0,2,.5)          64, A
    FIOAS1T=.3/.2/.1/.05/0                                 64.1, T
        FIOAS1 = FIOAS, VALUE BEFORE TIME=PYEAR
                 (DIMENSIONLESS)
        TABHL  = A FUNCTION WITH VALUES SPECIFIED BY A TABLE
        FIOAS1T= FIOAS1 TABLE
        SOPC   = SERVICE OUTPUT PER CAPITA (DOLLARS/PERSON-
                 YEAR)
        ISOPC  = INDICATED SERVICE OUTPUT PER CAPITA
                 (DOLLARS/PERSON-YEAR)

    FIOAS2.K=TABHL(FIOAS2T,SOPC.K/ISOPC.K,0,2,.5)          65, A
    FIOAS2T=.3/.2/.1/.05/0                                 65.1, T
        FIOAS2 = FIOAS, VALUE AFTER TIME=PYEAR
                 (DIMENSIONLESS)
        TABHL  = A FUNCTION WITH VALUES SPECIFIED BY A TABLE
        FIOAS2T= FIOAS2 TABLE
        SOPC   = SERVICE OUTPUT PER CAPITA (DOLLARS/PERSON-
                 YEAR)
        ISOPC  = INDICATED SERVICE OUTPUT PER CAPITA
                 (DOLLARS/PERSON-YEAR)
    SCIR.KL=(IO.K)(FIOAS.K)                                66, R
        SCIR   = SERVICE CAPITAL INVESTMENT RATE (DOLLARS/
                 YEAR)
        IO     = INDUSTRIAL OUTPUT (DOLLARS/YEAR)
        FIOAS  = FRACTION OF INDUSTRIAL OUTPUT ALLOCATED TO
                 SERVICES (DIMENSIONLESS)

    SC.K=SC.J+(DT)(SCIR.JK-SCDR.JK)                        67, L
    SC=SCI                                                 67.1, N
    SCI=1.44E11                                            67.2, C
        SC     = SERVICE CAPITAL (DOLLARS)
        DT     = TIME INTERVAL BETWEEN CONSECUTIVE
                 CALCULATIONS (YEARS)
        SCIR   = SERVICE CAPITAL INVESTMENT RATE (DOLLARS/
                 YEAR)
        SCDR   = SERVICE CAPITAL DEPRECIATION RATE (DOLLARS/
                 YEAR)
        SCI    = SERVICE CAPITAL INITIAL (DOLLARS)

    SCDR.KL=SC.K/ALSC.K                                    68, R
        SCDR   = SERVICE CAPITAL DEPRECIATION RATE (DOLLARS/
                 YEAR)
        SC     = SERVICE CAPITAL (DOLLARS)
        ALSC   = AVERAGE LIFETIME OF SERVICE CAPITAL (YEARS)

    ALSC.K=CLIP(ALSC2,ALSC1,TIME.K,PYEAR)                  69, A
    ALSC1=20                                               69.1, C
    ALSC2=20                                               69.2, C
        ALSC   = AVERAGE LIFETIME OF SERVICE CAPITAL (YEARS)
        CLIP   = A FUNCTION SWITCHED DURING THE RUN
        ALSC2  = ALSC, VALUE AFTER TIME=PYEAR (YEARS)
        ALSC1  = ALSC, VALUE BEFORE TIME=PYEAR (YEARS)
        TIME   = CURRENT TIME IN THE SIMULATION RUN
        PYEAR  = YEAR NEW POLICY IS IMPLEMENTED (YEAR)
```



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SO.K=(SC.K*CUF.K)/(SCOR.K)                                 70, A
    SO     = SERVICE OUTPUT (DOLLARS/YEAR)
    SC     = SERVICE CAPITAL (DOLLARS)
    CUF    = CAPITAL UTILIZATION FRACTION
             (DIMENSIONLESS)
    SCOR   = SERVICE CAPITAL-OUTPUT RATIO (YEARS)

SOPC.K=SO.K/POP.K                                          71, A
    SOPC   = SERVICE OUTPUT PER CAPITA (DOLLARS/PERSON-
             YEAR)
    SO     = SERVICE OUTPUT (DOLLARS/YEAR)
    POP    = POPULATION (PERSONS)

SCOR.K=CLIP(SCOR2,SCOR1,TIME.K,PYEAR)                      72, A
SCOR1=1                                                    72.1, C
SCOR2=1                                                    72.2, C
    SCOR   = SERVICE CAPITAL-OUTPUT RATIO (YEARS)
    CLIP   = A FUNCTION SWITCHED DURING THE RUN
    SCOR2  = SCOR, VALUE AFTER TIME=PYEAR (YEAR)
    SCOR1  = SCOR, VALUE BEFORE TIME=PYEAR (YEAR)
    TIME   = CURRENT TIME IN THE SIMULATION RUN
    PYEAR  = YEAR NEW POLICY IS IMPLEMENTED (YEAR)
  JOB SUBSECTOR

J.K=PJIS.K+PJAS.K+PJSS.K                                   73, A
    J      = JOBS (PERSONS)
    PJIS   = POTENTIAL JOBS IN INDUSTRIAL SECTOR
             (PERSONS)
    PJAS   = POTENTIAL JOBS IN AGRICULTURAL SECTOR
             (PERSONS)
    PJSS   = POTENTIAL JOBS IN SERVICE SECTOR (PERSONS)

PJIS.K=(IC.K)(PJICU.K)                                     74, A
    PJIS   = POTENTIAL JOBS IN INDUSTRIAL SECTOR
             (PERSONS)
    IC     = INDUSTRIAL CAPITAL (DOLLARS)
    PJICU  = JOBS PER INDUSTRIAL CAPITAL UNIT (PERSONS/
             DOLLAR)

JPICU.K=(TABHL(JPICUT,IOPC.K,50,800,150))*1E-3             75, A
JPICUT=.37/.18/.12/.09/.07/.06                             75.1, T
    JPICU  = JOBS PER INDUSTRIAL CAPITAL UNIT (PERSONS/
             DOLLAR)
    TABHL  = A FUNCTION WITH VALUES SPECIFIED BY A TABLE
    JPICUT = JPICU TABLE
    IOPC   = INDUSTRIAL OUTPUT PER CAPITA (DOLLARS/
             PERSON-YEAR)

PJSS.K=(SC.K)(JPSCU.K)                                     76, A
    PJSS   = POTENTIAL JOBS IN SERVICE SECTOR (PERSONS)
    SC     = SERVICE CAPITAL (DOLLARS)
    JPSCU  = JOBS PER SERVICE CAPITAL UNIT (PERSONS/
             DOLLAR)

JPSCU.K=(TABHL(JPSCUT,SOPC.K,50,800,150))*1E-3             77, A
JPSCUT=1.1/.6/.35/.2/.15/.15                               77.1, T
    JPSCU  = JOBS PER SERVICE CAPITAL UNIT (PERSONS/
             DOLLAR)
    TABHL  = A FUNCTION WITH VALUES SPECIFIED BY A TABLE
    JPSCUT = JPSCU TABLE
    SOPC   = SERVICE OUTPUT PER CAPITA (DOLLARS/PERSON-
             YEAR)

PJAS.K=(JPH.K)(AL.K)                                       78, A
    PJAS   = POTENTIAL JOBS IN AGRICULTURAL SECTOR
             (PERSONS)
    JPH    = JOBS PER HECTARE (PERSONS/HECTARE)
    AL     = ARABLE LAND (HECTARES)


JPH.K=TABHL(JPHT,AIPH.K,2,30,4)                            79, A
JPHT=2/.5/.4/.3/.27/.24/.2/.2                              79.1, T
    JPH    = JOBS PER HECTARE (PERSONS/HECTARE)
    TABHL  = A FUNCTION WITH VALUES SPECIFIED BY A TABLE
    JPHT   = JPH TABLE
    AIPH   = AGRICULTURAL INPUTS PER HECTARE (DOLLARS/
             HECTARE-YEAR)

LF.K=(P2.K*P3.K)*LFPF                                      80, A
```