

BILAG E FORMELFIL

Dette bilag indeholder alle ligningerne i SMEC. De er opskrevet til simulering i GEKKO. Der er en liste i bilag F med alle variablerne i SMEC med tilhørende variabelforklaring. De enkelte ligninger begynder med en kode, som angiver, hvilken form for ligning der er tale om.

FRML _<klasse><justeringsled><eksogeniseringsmulighed>

Der benyttes følgende ligningsklasser:

- S Stokastisk ligning, dvs. med residual i de historiske år
- G "Guestimeret" ligning, også med residual i de historiske år
- D Definitionsligning
- I Identitet, f.eks. nationalregnskabsmæssige sammenhænge

Plads 3-4 angiver, om der er automatisk justeringsled i ligningen: J_ er et niveaustjusteringsled og JR er et vækstrategjusteringsled, jf. boks A.

Boks A Justeringsled i gekkoformler

Formlen

FRML _SJ__ $Y = 0.5 * X + 7;$

oversættes i gekko til

$Y = 0.5 * X + 7 + JY$

Formlen

FRML _SJR_ $D \log(Y) = 0.5 * D \log(X) + 7;$

oversættes i gekko til

$D \log(Y) = 0.5 * D \log(X) + 7 + (1 + JR)Y$

Et D på plads 5 angiver, at det er muligt at eksogenisere ligningen.

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//Info: SMEC - De Økonomiske Råds sekretariats makroøkonomiske model (version E23)
//Date: 2023.10.12 10:42

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// *****  
// * SMEC 2023 *  
// *****
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// INDHOLDSFORTEGNELSE  
// 1. Eksport, mængder  
// 2. Privat forbrug, mængder  
// 3. Investeringer, kapitalapparat og afskrivninger  
// 3.1 Erhvervsfordelte investeringer og kapitalapparat  
// 3.2 Aggregater og afskrivninger  
// 4. Boliginvesteringer og kontantpris  
// 5. Import, mængder  
// 6. IO-koefficienter  
// 6.1 Imports substitution  
// 6.2 IO-justeringer  
// 6.3 Særbehandlede IO-koefficienter  
// 7. Produktionsværdi, BVT mv., mængder  
// 7.1 Produktionsværdier i private erhverv  
// 7.2 BVT i private erhverv  
// 7.3 Varekøb i private erhverv  
// 7.4 Aggregater  
// 8. Beskæftigelse, produktivitet, arbejdsstyrke og ledighed  
// 8.1 Beskæftigelse i timer  
// 8.2 Beskæftigelse i personer  
// 8.3 Arbejdstid  
// 8.4 Timeproduktivitet  
// 8.5 Arbejdsstyrke, ledighed og aktiverede  
// 9. Den offentlige sektor  
// 9.1 Offentlig produktion, forbrug og investeringer  
// 9.2 Nettofordringserhvervelse og rentestrømme  
// 9.3 Offentlige transfereringer mv.  
// 9.4 Samlede og direkte skatter  
// 9.5 Indirekte skatter, subsidier og andre skatter samt øvrige indtægter  
// 10. Betalingsbalance og udlandsgæld  
// 11. Privat sektors nettofordringserhvervelse, indkomst og formue  
// 11.1 Indkomster  
// 11.2 Forbrugsbestemmende formue og nettofordringserhvervelse  
// 11.3 Pensioner  
// 12. Løn  
// 12.1 Løn  
// 12.2 Lønsummer og lønkvoter  
// 12.3 Implicit timeløn  
// 13. Deflatorer  
// 13.1 BVT-deflatorer  
// 13.2 Produktionsværdi-deflatorer  
// 13.3 Netto-priser på endelig anvendelse  
// 13.4 Markeds-priser på endelig anvendelse mv.  
// 13.5 Energipriser i udenrigshandlen  
// 13.6 Deflatorer på aggregater  
// 14. Værdier (løbende priser)  
// 14.1 Tilgang  
// 14.2 Anvendelse  
// 15. Renter og valutakurs  
// 16. Strukturelle niveauer og gap  
// 17. Strukturel saldo
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// *****  
// MODELLIGNINGER  
// *****
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// *****  
// * 1. EKSPORT, MÆNGDER *  
// *****
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// BNP I UDLANDET OG KONKURRENTPRIS

```
FRML _SJR Dlog(udfY) = (0.5811)*Dlog(udfY_s)  
+ (0.4189)*Dlog(udfY[-1])  
+ gudfy  
+ (-0.62387)*log(udfY[-1]/udfY_s[-1]);
```

```
FRML _DJRD log(udpew) = (0.45233)*log((udliht/udvy_s)/effkr)*100  
+ (0.44626)*log(pmx)  
+ (0.1014)*log(pme)  
+ dtudpe  
+ kudpew;
```

```
FRML _SJR Dlog(udpe) = (0.65137)*Dlog((udliht/udvy_s)/effkr)
```

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+ (0.27883)*Dlog(pmx)
+ (0.0698)*Dlog(pme)
- (-0.2927)*Diff(dtudpe)
+ gudpe
+ (-0.2927)*log(udpe[-1]/udpew[-1]);

FRML _DJRD      udbyw      = dtudbyw
                        + kudbyw;

FRML _SJRJ Dlog(udliht)  = (0.1)*Dlog(pmx)
                        + (0.1)*Dlog(pmx[-1])
                        + (0.1)*(udfY/udfY_s[-1]-1)
                        - (-0.15)*Diff(dtudbyw)
                        + gudliht
                        + (-0.15)*(udliht[-1]/udpe[-1]/udvy_s[-1]-udbyw[-1]);

// EKSPORT EKSKL. ENERGI, SØFART OG TURISME

FRML _DJRD      log(bfexw)  = (-2.25)*log(pex/udpe)
                        + dtfex
                        + kfexw;

FRML _SJRJ Dlog(fEx)      = (-1)*Dlog(pex/udpe)
                        + (1.40509)*Dlog(udfY)
                        - (-0.2)*Diff(dt fex)
                        + gfex
                        + (-0.2)*(log(fEx[-1]/udfY_s[-1])-log(bfexw[-1]));

// EKSPORT AF SØFART

FRML _DJRD      log(bfesw)  = dtfes
                        + kfesw;

FRML _SJRJ Dlog(fEs)      = (0.5787)*Dlog(udfY)
                        - (-0.51264)*Diff(dt fes)
                        + gfes
                        + (-0.51264)*(log(fEs[-1]/udfY_s[-1])-log(bfesw[-1]));

// EKSPORT AF ENERGI

FRML _DJRD      log(bfeew)  = dtfee
                        + kfeew;

FRML _SJRJ Dlog(fEe)      = (0.88879)*Dlog(fXn)
                        - (-0.82981)*Diff(dtfee)
                        + gfes
                        + (-0.82981)*(log(fEe[-1]/fXn[-1])-log(bfeew[-1]));

// EKSPORT AF TURISME

FRML _DJRD      log(bfetw)  = kfetw;

FRML _SJRJ Dlog(fEt)      = (1.43268)*Dlog(udfY)
                        + (-1.48534)*(0.5*Dlog(pet/pmx)+0.5*Dlog(pet[-1]/pmx[-1]))
                        + gfet
                        + (-0.19667)*(log(fEt[-1]/udfY_s[-1])-log(bfetw[-1]));

// EKSPORT I ALT

FRML _I          fE          = (fEx*pex[-1] + fEe*pee[-1] + fEs*pes[-1] + fEt*pet[-1])/pe[-1];

// *****
// * 2.  PRIVAT FORBRUG      *
// *****

// SAMLET FORBRUG

FRML _DJRD      log(bfcpw)  = (0.44425)*log(Wcp/Ydl)
                        + dtfcp
                        + kfcpw;

FRML _SJRJ Dlog(fCp)      = (0.29938)*Dlog(Ydk/pcp)
                        + (0.5)*Dlog(Q)
                        + (0.09363)*(Dlog(phk)-gpcpe)
                        + (-0.03)*Diff(ucost1)
                        - (-0.39936)*Diff(dt fcp)
                        + gfcpc
                        + (-0.39936)*(log(Cp[-1]/Ydl[-1])-log(bfcpw[-1]));

// BILKØB OG BILBEHOLDNING

FRML _DJRD      log(bfcbw)  = (-0.22231)*log(pcb/pcp)

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+ kfcbw;

FRML _SJR Dlog(fCb) = (1.33803)*Dlog(fYdk)
+ (-0.26214)*Dlog(pcb/pcp)
+ (1.93782)*(Dlog(phk)-gpcpe)
+ gfcb
+ (-0.52966)*(log(fCb[-1]/fYdl[-1])-log(bfcbw[-1]));

FRML _D fKcb = fCb + (1-dprcb)*fKcb[-1];

// BOLIGFORBRUG

FRML _SJR fCh = (0.7*dprbh+dtfch)*fKeh[-1];
FRML _DJR bfchw = (0.7*dprbh+dtfch)*bfkeh;

// ENERGIFORBRUG

FRML _DJR log(bfcew) = -0.3*log(pce/pcp)
+ dtfce
+ kfcew;

FRML _SJR Dlog(fCe) = (0.25109)*Dlog(fYdk)
+ (-0.15)*Dlog(pce/pcp)
- (-0.37333)*Diff(dtfce)
+ gfce
+ (-0.37333)*(log(fCe[-1]/fYdl[-1])-log(bfcew[-1]));

// FORBRUG (=IMPORT) AF TURISME

FRML _DJR log(bfctw) = dtfct
+ kfctw;

FRML _SJR Dlog(fCt) = (0.56105)*Dlog(fCp)
+ (-1.10738)*Dlog(pct/pcp)
- (-0.18093)*Diff(dtfct)
+ gfct
+ (-0.18093)*(log(fCt[-1]/fYdl[-1])-log(bfctw[-1]));

// FORBRUG AF VARER & TJENESTER

FRML _D bfcxw = ((pcp/pcp)*bfcpw - (pcb/pcp)*bfcbw - (pch/pcp)*bfchw - (pce/pcp)*bfcew
- (pct/pcp)*bfctw + (pet/pcp)*bfetw*(udfY_s/fYdl))/ (pcx/pcp);
FRML _I Cx = fCp*pcp - fCb*pcb - fCh*pch - fCe*pce - fCt*pct + fEt*pet;
FRML _I fCx = Cx/pcx;

// FORBRUG AF ANDET END BILER

FRML _D fCa = (fCx*pcx[-1] + fCe*pce[-1] + fCh*pch[-1] + fCt*pct[-1]
- fEt*pet[-1])/pca[-1];

// *****
// * 3. INVESTERINGER OG KAPITALAPPARAT *
// *****

// *** 3.1 ERHVERVSFORDELTE INVESTERINGER OG KAPITALAPPARAT ***

// PRIVATE BYERHVERV (PB)

// TFP -> skalaparameter i produktionsfunktionen
FRML _D Dlog(dtapb) = vtfppb/100 - Diff(bywlpb_s)*log(HQpb)
- Diff(bykpb_s)*log(fKpb)
- Diff(1-bywlpb_s-bykpb_s)*logfYfud;
FRML _D log(dtapbf) = log(fYfpb) - bykpb_s*log(fKpb)
- bywlpb_s*log(HQpb)
- (1-bywlpb_s-bykpb_s)*logfYfud;
FRML _D vtfppbf = 100*(Dlog(dtapbf) + Diff(bywlpb_s)*log(HQpb)
+ Diff(bykpb_s)*log(fKpb)
+ Diff(1-bywlpb_s-bykpb_s)*logfYfud);

// Usercostrate, investeringspris og kapitalpris
FRML _D ucmpb = ((1-tsds*bivm)/(1-tsds)) //skattemæssige afskriv.
// gældsfin. egenfin. afskr. infl.forv.
*(0.5*iwlo*(1-tsds) + 0.5*(iwlo+rppb) + dprmpb - (1-dprmpb)*gpime);
FRML _D ucbbp = ((1-tsds*bivb)/(1-tsds))
*(0.5*iwlo*(1-tsds) + 0.5*(iwlo+rppb) + dprbbp - (1-dprbbp)*gpibe);
FRML _D ucpb = ucmpb*(1-bkbbp_s) + ucbbp*bkbbp_s;

FRML _D pipb = pim*(1-bkbbp_s) + pib*bkbbp_s;
FRML _D pkpb = ucpb*pipb;

// Faktisk risikopræmie
FRML _D rppbf = ((Yfpb - (1-bywlpb_s-bykpb_s)*Yfpb - (Siqpb-Siqwpb) - HQpb*lpb)/(fKpb*pipb)

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- ((1-tsds*bivm)/(1-tsds))*(0.5*iwlo*(1-tsds)+0.5*iwlo+dprmpb
- (1-dprmpb)*gpime)*(1-bkbbp)
- ((1-tsds*bivb)/(1-tsds))*(0.5*iwlo*(1-tsds)+0.5*iwlo+dprbbp
- (1-dprbbp)*gpibe)*bkbbp
)/(((1-tsds*bivm)/(1-tsds))*(1-bkbbp) + ((1-tsds*bivb)/(1-tsds))*bkbbp)/0.5;

// Ønsket K og K/L-forhold
FRML _D      log(fKpbw)   = log(fYfpb) + log(bykpb_s) + log(pyfpbw) - log(pkpb);
FRML _DJRD   log(KLpbw)   = log(bykpb_s/bywlpb_s) + log(lpb/pkpb);
FRML _DJR    log(KLpbw_s) = (1-dxkltrend)*log(KLpbw) + dxkltrend*logkl_tr;

// Maskin- og bygningskapital
FRML _SJR    Dlog(fKmpb)   = (0.26725)*Dlog(fYfpb)
+ (-0.5)*Diff(ucmpb)
+ gfkmpb
+ (-0.1)*(log(fKmpb[-1])-(log(1-bkbbp_s[-1])+log(KLpbw[-1])+log(HQpb_s[-1]))));
FRML _SJR    Dlog(fKbbp)   = (0.13957)*Dlog(fYfpb[-1])
+ (-0.25)*Diff(ucbbp)
+ gfkbbp
+ (-0.075)*(log(fKbbp[-1])-(log(bkbbp_s[-1])+log(KLpbw[-1])+log(HQpb_s[-1]))));

FRML _D      fKpb         = fKmpb + fKbbp;
FRML _D      bkbbp       = fKbbp/fKpb;

// Maskin- og bygningsinvesteringer
FRML _D      fImpb        = (Diff(fKmpb) + dprmpb*fKmpb[-1])*kfkmpp;
FRML _D      fIbbp        = (Diff(fKbbp) + dprbbp*fKbbp[-1])*kfkbbp;

// BVT skabt i udlandet
FRML _GJRD   logfYfud     = log((1-bywlpb_s-bykpb_s)*fYfpb_tr);

// LANDBRUG (A)
FRML _GJRD   fIma         = kfima*fYfa;
FRML _D      fKma         = fKma[-1] + fIma/kfkma - dprma*fKma[-1];
FRML _GJRD   fIba         = kfiba*fYfa;
FRML _D      fKba         = fKba[-1] + fIba/kfkba - dprba*fKba[-1];

// ENERGIFORSYNING (E)
FRML _GJRD   fIme         = kfime*fYfe;
FRML _D      fKme         = fKme[-1] + fIme/kfkme - dprme*fKme[-1];
FRML _GJRD   fIbe         = kfibe*fYfe;
FRML _D      fKbe         = fKbe[-1] + fIbe/kfkbe - dprbe*fKbe[-1];

// NORDSØ (N)
FRML _GJRD   fImn         = kfimn*fYfn;
FRML _D      fKmn         = fKmn[-1] + fImn/kfkmn - dprmn*fKmn[-1];
FRML _GJRD   fIbn         = kfibn*fYfn;
FRML _D      fKbn         = fKbn[-1] + fIbn/kfkbn - dprbn*fKbn[-1];

// SØFART (S)
FRML _GJRD   fImS         = kfims*fYfs;
FRML _D      fKms         = fKms[-1] + fImS/kfkms - dprms*fKms[-1];
FRML _GJRD   fIbs         = kfibs*fYfs;
FRML _D      fKbs         = fKbs[-1] + fIbs/kfkbs - dprbs*fKbs[-1];

// OFFENTLIG (O)
FRML _G      fImxo        = kfimo*fImxos;
FRML _G      fImo         = kfimo*fImos;
FRML _D      fKmo         = fKmo[-1] + fImo/kfkmo - dprmo*fKmo[-1];
FRML _G      fIbo         = kfibo*fIbos;
FRML _D      fKbo         = fKbo[-1] + fIbo/kfkbo - dprbo*fKbo[-1];

// *** 3.2 AGGREGATER OG AFSKRIVNINGER ***
FRML _I      Il           = file*pxe + fIla*pxa + fIlpb*pxpb + filme*pme + fIlmx*pmx + fIlsv*psiv;
FRML _I      fIl         = Il/pil;

FRML _I      fIbpps       = (fIb*pib[-1]-fIbos*pibos[-1]-fIbh*pibh[-1])/pibps[-1];
FRML _I      fIb         = (fIbn+fIbe+fIba+fIbpb+fIbh+fIbs+fIbo)*kfib;
FRML _I      fIbxh        = (fIb*pib[-1]-fIbh*pibh[-1])/pibxh[-1];
FRML _I      pibxh        = (fIb*pib-fIbh*pibh)/fIbxh;
FRML _I      Ibxh         = fIbxh*pibxh;
FRML _I      fKb         = fKbbp + fKba + fKbn + fKbe + fKbs + fKbh + fKbo;

FRML _I      fImps        = (fImx*pmx[-1]-fImxos*pimxos[-1])/pimps[-1];
FRML _I      fImx         = (fImn+fIme+fIma+fImpb+fImS+fImxo)*kfimx;
FRML _I      fIm         = (fImx*pmx[-1]+fIofu*piofu[-1])/pim[-1];
FRML _I      fKm         = fKmpb + fKma + fKmn + fKme + fKms + fKmo;

FRML _I      fIf         = (fIm*pm[-1]+fIb*pib[-1])/pif[-1];
FRML _I      fIfps        = (fIf*pif[-1]-fIos*pios[-1])/pifps[-1];

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FRML _I      fIfpsxh  = (fImps*pimps[-1]+fIbbs*pibps[-1])/pifpsxh[-1];
FRML _I      pifps    = (fIf*pif-fIos*pios)/fIfps;
FRML _I      pifpsxh  = (fImps*pimps+fIbbs*pibps)/fIfpsxh;
FRML _I      Ifps     = fIfps*pifps;
FRML _I      Ifpsxh  = fIfpsxh*pifpsxh;
FRML _I      fI       = (fIf*pif[-1]+fI1*pil[-1])/pi[-1];

FRML _I      fIv      = dprma*fKma[-1] + dprmpb*fKmpb[-1] +
                        dprme*fKme[-1] + dprms*fKms[-1] + dprmn*fKmn[-1] + dprmo*fKmo[-1] +
                        dprba*fKba[-1] + dprbpb*fKbpb[-1] +
                        dprbe*fKbe[-1] + dprbs*fKbs[-1] + dprbn*fKbn[-1] + dprbo*fKbo[-1] +
                        dprbh*fKbh[-1];

// *****
// * 4. BOLIGINVESTERINGER OG KONTANTPRIS          *
// *****

// USERCOST OG GRUNDPRIS

FRML _DJ_D    tsuih    = tsk + tss + tks + (1-D4711)*(0.08-tss);
FRML _DJ_D    tej      = kssyej*tqkej                      // Ejendomsværdiskat (fra 2000)
                        + 0.3*(1-tsuih*dse)*ksiqejh*tsiqej; // Grundskyld (kun på grunden = 0.3)

FRML _DJ_D    ucost    = (1-tsuih)*(iwb+iwb30yr) + tej + 0.7*dprbh - gpcpe + 0.025;
FRML _DJ_D    ucost1   = (1-tsuih)*(iwb+d6600*iwb30yr+(1-d6600)*(0.5*iwb30yr+0.5*iwbfyr))+tej+baafd;

FRML _GJRD    Dlog(phgk) = Dlog(phk) + dtphgk + gphgk -0.25*(phgk[-1]*fKgh[-1]/(fKeh[-1]*phk[-1])-0.3);

// KONTANTPRISRELATION (LANGSIGTET BOLIGFETERSPØRGSEL -> BOLIGPRIS PÅ KORT SIGT)

FRML _DJRD    log(bfkeh) = (-0.42551)*log(phk/pcp)
                        + (-0.3)*log(ucost)
                        + dtfkeh
                        + kfkeh;

FRML _SJRJRD  Dlog(phk) = Dlog(pcp)
                        + (-3.96755)*Diff(ucost1)
                        + (1.5613)*(Dlog(fYdk)+0.5*Dlog(Q))
                        - (-0.69381)*Diff(dtfkeh)
                        + gphk
                        + (-0.69381)*(log(fKeh[-2]/fYdl[-1])-log(bfkeh[-1]));

// PRIVATE BOLIGINVESTERINGER (BOLIGUDBUD)

FRML _DJRD    tobinqh  = phk/(pibh**0.7*phgk**0.3);

FRML _SJRJRD  fIbh     = ((0.06416)*Dlog(tobinqh) + (0.01104)*log(tobinqh[-1])
                        + (0.74872)*(fIbh[-1]-1.5*nbs[-1])/fKbh[-2] + gfibh)*fKbh[-1]
                        + 1.5*nbs;

FRML _I      fKbh     = fKbh[-1] + fIbh/kfkbh - dprbh*fKbh[-1];
FRML _D      fKeh     = afkeh * fKbh**0.7 * fKgh**0.3;

// *****
// * 5. IMPORT, MÆNGDER                                *
// *****

// IMPORT EKSKL. ENERGI, SØFART OG TURISME

FRML _D      fAMx     = fAMx[-1]*(amxa[-1]*fXa+amxpb[-1]*fXpb
                        +amxcx[-1]*fCx+amxim[-1]*fImx+amxex[-1]*fEx)/fMzx[-1];

FRML _DJRD    log(bfmzx) = (-0.93376)*log((pmx+tmx)/pxpb)
                        + dtfmzx
                        + kfmzx;

FRML _SJRJRD  Dlog(fMzx) = (1.47697)*Dlog(fAMx)
                        + (-0.75)*Dlog((pmx+tmx)/pxpb)
                        - (-0.21419)*Diff(dtfmzx)
                        + gfmzx
                        + (-0.21419)*(log(fMzx[-1]/fAMx[-1])-log(bfmzx[-1]));

FRML _D      fMx      = fMzx + amxo*fXo + amxcb*fCb + fIlmx;
FRML _G      kfmzx    = (fMzx/fAMx)/(fMzx[-1]/fAMx[-1]);

// IMPORT AF ENERGI, SØFART OG TURISME

FRML _D      fMe      = amee*fXe + ames*fXs + ameee*fEe + fIlme;
FRML _D      fMs      = amss*fXs + amses*fEs;
FRML _I      fMt      = fCt;

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// IMPORT I ALT

FRML _I      fm      = (fMx*pmx[-1] + fMe*pme[-1] + fMs*pms[-1] + fMt*pmt[-1])/pm[-1];

// *****
// * 6. IO-KOEFFICIENTER *
// *****

// *** 6.1 IMPORTSUBSTITUTION ***

FRML _G      amxa      = amxa[-1]*kfmX + j0amxa;
FRML _G      amxpb     = amxpb[-1]*kfmX + j0amxpb;
FRML _G      amxcx     = amxcx[-1]*kfmX + j0amxcx;
FRML _G      amxim     = amxim[-1]*kfmX + j0amxim;
FRML _G      amxex     = amxex[-1]*kfmX + j0amxex;

// MODKORREKTION AF KOEFFICIENTER FOR INDENLANDSKE LEVERANCER FRA PRIVATE BYERHVERV
// hvis modposten er residualbestemt (jf. nedenfor), indsubstitueres dette udtryk heroppe,
// og det udgår nedenfor
FRML _G      apba      = (apba[-1] + japba) - (amxa[-1] * (kfmX-1)) * (pmx[-1]/pxpb[-1]);
FRML _G      apbpb     = (apbpb[-1] + japbpb) - (amxpb[-1] * (kfmX-1)) * (pmx[-1]/pxpb[-1]);
FRML _G      apbcx     = (apbcx[-1] - ((aocx-aocx[-1]) * pxo[-1] + j0amxcx*pmx[-1] + jasvcx*psiv[-1])/pxpb[-1]
                        - j0apbcx) - (amxcx[-1] * (kfmX-1)) * (pmx[-1]/pxpb[-1]);
FRML _G      apbim     = (apbim[-1] - (j0amxim*pmx[-1] + jasvim*psiv[-1])/pxpb[-1]
                        - j0apbim) - (amxim[-1] * (kfmX-1)) * (pmx[-1]/pxpb[-1]);
FRML _G      apbex     = (apbex[-1] - (jaaex*pxa[-1] + j0amxex*pmx[-1] + jasvex*psiv[-1])/pxpb[-1]
                        - j0apbex) - (amxex[-1] * (kfmX-1)) * (pmx[-1]/pxpb[-1]);

// *** 6.2 IO-JUSTERINGER ***

// ENDELIGE ANVENDELSER
// For at sikre konsistens modposteres i én celle pr. søjle, der dermed residualberegnes
// - som udgangspunkt leverancen fra PB (omfatter bl.a. handelsavance)
FRML _G      aece      = aece[-1] - (japbce*pxpb[-1] + jasvce*psiv[-1])/pxe[-1] - j0aece;
FRML _G      apbce     = apbce[-1] + japbce;
FRML _G      asvce     = asvce[-1] + jasvce;

FRML _G      asvcx     = asvcx[-1] + jasvcx;

FRML _G      apbcb     = apbcb[-1] - (jamxcb*pmx[-1] + jasvcb*psiv[-1])/pxpb[-1] - j0apbcb;
FRML _G      amxcb     = amxcb[-1] + jamxcb;
FRML _G      asvcb     = asvcb[-1] + jasvcb;

FRML _G      apbch     = apbch[-1] - (jahch*pxh[-1] + jasvch*psiv[-1])/pxpb[-1] - j0apbch;
FRML _G      ahch      = ahch[-1] + jahch;
FRML _G      asvch     = asvch[-1] + jasvch;

FRML _G      apbco     = apbco[-1] - (jaoco*pxo[-1] + jasvco*psiv[-1])/pxpb[-1] - j0apbco;
FRML _G      aoco      = aoco[-1] + jaoco;
FRML _G      asvco     = asvco[-1] + jasvco;

FRML _G      asvim     = asvim[-1] + jasvim;

FRML _G      apbib     = apbib[-1] - (jasvib*psiv[-1])/pxpb[-1] - j0apbib;
FRML _G      asvib     = asvib[-1] + jasvib;

FRML _G      aaex      = aaex[-1] + jaaex;
FRML _G      asvex     = asvex[-1] + jasvex;

FRML _G      anee      = anee[-1] + janee;
FRML _G      aeee      = aeee[-1] - (janeee*pxn[-1] + jameee*pme[-1] + jasvee*psiv[-1])/pxe[-1] - j0aeee;
FRML _G      ameee     = ameee[-1] + jameee;
FRML _G      asvee     = asvee[-1] + jasvee;

FRML _G      ases     = ases[-1] - (jameses*pms[-1])/pxs[-1] - j0ases;
FRML _G      amses     = amses[-1] + jameses;

// ERHVERVENES PRODUKTION
// For at sikre konsistens modposteres i én celle pr. søjle, der dermed residualberegnes
// - som udgangspunkt BVT-indholdet
FRML _G      apbn      = apbn[-1] + japbn;
FRML _G      asvn      = asvn[-1] + jasvn;
FRML _G      ayfn      = ayfn[-1] - (japbn*pxpb[-1] + jasvn*psiv[-1])/pyfn[-1] - j0ayfn;

FRML _G      aee       = aee[-1] + jae;
FRML _G      apbe      = apbe[-1] + japbe;
FRML _G      amee      = amee[-1] - ((ane-ane[-1]) * pxn[-1] + jae*pme[-1] + japbe*pxpb[-1] + jayfe*pyfe[-1]
                        + jasve*psiv[-1])/pme[-1] - j0amee;
FRML _G      asve      = asve[-1] + jasve;
FRML _G      ayfe      = ayfe[-1] + jayfe;
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FRML _G      aea      = aea[-1] + jaea;
FRML _G      aaa      = aaa[-1] + jaaa;
FRML _G      asva     = asva[-1] + jasva;
FRML _G      ayfa     = ayfa[-1] - (jaea*pxe[-1]+jaaa*pxa[-1]+japba*pxpb[-1]+j0amxa*pmx[-1]
                          +jasva*psiv[-1])/pyfa[-1]-j0ayfa;

FRML _G      aepb     = aepb[-1] + jaepb;
FRML _G      aapb     = aapb[-1] + jaapb;
FRML _G      asvpb    = asvpb[-1] + jasvpb;
FRML _G      ayfpb    = ayfpb[-1] - (jaepb*pxe[-1]+jaapb*pxa[-1]+japbpb*pxpb[-1]
                          + (aspb-aspb[-1])*pxs[-1]+j0amxpb*pmx[-1]
                          +jasvpb*psiv[-1])/pyfpb[-1]-j0ayfpb;

FRML _G      apbs     = apbs[-1] + japbs;
FRML _G      ames     = ames[-1] + james;
FRML _G      amss     = amss[-1] + jamss;
FRML _G      asvs     = asvs[-1] + jasvs;
FRML _G      ayfs     = ayfs[-1] - (japbs*pxpb[-1]+james*pme[-1]+jamss*pms[-1]
                          +jasvs*psiv[-1])/pyfs[-1]-j0ayfs;

FRML _G      apbh     = apbh[-1] + japbh;
FRML _G      asvh     = asvh[-1] + jasvh;
FRML _G      ayfh     = ayfh[-1] - (japbh*pxpb[-1]+jasvh*psiv[-1])/pyfh[-1]-j0ayfh;

FRML _G      aeo      = aeo[-1] + jaeo;
FRML _G      apbo     = apbo[-1] - (jaeo*pxe[-1]+jaoo*pxo[-1]+jamxo*pmx[-1]+jasvo*psiv[-1]
                          +jayfo*pyfo[-1])/pxpb[-1]-j0apbo;

FRML _G      aoo      = aoo[-1] + jaoo;
FRML _G      amxo     = amxo[-1] + jamxo;
FRML _G      asvo     = asvo[-1] + jasvo;
FRML _G      ayfo     = ayfo[-1] + jayfo;

// *** 6.3 SÆRBEHANDLEDE IO-KOEFFICIENTER ***

// SØFART
// IO-ligninger "vendes": PMS er eneste eksogene pris, og fast forhold mellem FES og FXS
FRML _G      aspb     = (kfxs-1)*(ases*fEs)/fXpb;

// NORDSØ
// IO-ligninger "vendes": FXN eksogen, FEE følger FXN
FRML _G      ane      = (fXn-ane*fEe)/fXe;

// OFFENTLIG PRODUKTION
// IO-ligninger "vendes": AOCX*FCX følger FXO, så en ændring i FCX ikke ændrer FXO
FRML _G      aocx     = kocx*fXo/fCx;

// *****
// * 7. PRODUKTIONSVÆRDI, BVT MV., MÆNGDER *
// *****

// 7.1 PRODUKTIONSVÆRDI I PRIVATE ERHVERV

FRML _D      fXe      = (aea*fXa + aepb*fXpb + aeo*fXo + aece*fCe + aeee*fEe + file)/(1-aee);
FRML _D      fXa      = (aapb*fXpb + aaex*fEx + fIla)/(1-aaa);
FRML _D      fXpb     = (apbn*fXn + apbe*fXe + apba*fXa + apbs*fXs + apbh*fXh + apbo*fXo +
                          apbce*fCe + apbcx*fCx + apbcb*fCb + apbch*fCh + apbco*fCo +
                          apbim*fImx + apbib*fIb + apbex*fEx + fIlpb)/(1-apbpb);
FRML _D      fXs      = kfxs*(ases*fEs);
FRML _D      fXh      = ahch*fCh;

// 7.2 BVT I PRIVATE ERHVERV

FRML _D      fYfn     = fXn*ayfn;
FRML _D      fYfe     = fXe*ayfe;
FRML _D      fYfa     = fXa*ayfa;
FRML _G      fYfpb    = fXpb*ayfpb*kkf;
FRML _D      fYfs     = fXs*ayfs;
FRML _D      fYfh     = fXh*ayfh;

// 7.3 VAREKØB I PRIVATE ERHVERV

// ENERGI
FRML _D      fVee     = fXe*(ane+aee+amee);
FRML _D      fVea     = fXa*aea;
FRML _D      fVepb    = fXpb*aepb;
FRML _D      fVes     = fXs*ames;

// MATERIALER inkl. alle varetilknyttede afgifter i erhvervet realt
FRML _D      fVmn     = fXn*(apbn+asvn);
FRML _D      fVme     = fXe*(apbe+asve);
FRML _D      fVma     = fXa*(aaa+apba+amxa+asva);
FRML _D      fVmpb    = fXpb*(aapb+apbpb+aspb+amxpb+asvpb);

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FRML _D      fVms      = fXs*(apbs+amss+asvs);
FRML _D      fVmh      = fXh*(apbh+asvh);

// 7.4 AGGREGATER

FRML _D      fXpr      = (fXn*pxn[-1]+fXe*pxe[-1]+fXa*pxa[-1]+fXs*pxs[-1]+fXh*pxh[-1])/pxpr[-1];
FRML _D      ppxr      = Xpr/fxpr;
FRML _D      fXp      = (fXpb*pxpb[-1]+fXpr*pxpr[-1])/pxp[-1];
FRML _D      pxp      = Xp/fXp;
FRML _I      fX        = (fXp*pxp[-1]+fXo*pxo[-1])/px[-1];

FRML _D      fYfpr     = (fYfn*pyfn[-1]+fYfe*pyfe[-1]+fYfa*pyfa[-1]+fYfs*pyfs[-1]+fYfh*pyfh[-1])/pyfpr[-1];
FRML _D      pyfpr     = Yfpr/fYfpr;
FRML _D      fYfr      = (fYfpr*pyfpr[-1]+fYfo*pyfo[-1])/pyfr[-1];
FRML _D      fYfp      = (fYfpb*pyfpb[-1]+fYfpr*pyfpr[-1])/pyfp[-1];
FRML _I      fYf        = (fYfp*pyfp[-1]+fYfo*pyfo[-1])/pyf[-1];

FRML _D      fVx      = (fX*px[-1]-fYf*pyf[-1])/pvx[-1];

FRML _D      fSiv      = asvn*fXn + asve*fXe + asva*fXa + asvpb*fXpb + asvs*fXs + asvh*fXh + asvo*fXo +
                        asvce*fCe + asvcx*fCx + asvcb*fCb + asvch*fCh + asvco*fCo +
                        asvim*fImx + asvib*fIb + asvee*fEe + asvex*fEx + fIlsv;

FRML _D      fAt      = (fYf*pyf[-1] + fM*pm[-1] + fSiv*psiv[-1])/pat[-1];
FRML _D      fAi      = (fCp*pcp[-1] + fCo*pco[-1] + fI*pi[-1])/pai[-1];
FRML _D      fAips     = (fAi*pai[-1] - fCo*pco[-1] - fIos*pios[-1])/paips[-1];
FRML _D      fAe      = (fAi*pai[-1] + fE*pe[-1])/pae[-1];

FRML _I      fY        = (fAe*pae[-1]-fM*pm[-1])/py[-1];

// MÆNGDEKORREKTION
FRML _G__D   kkf      = kkf + 1 - fAt/fAe;

// *****
// * 8. BESKÆFTIGELSE, ARBEJDSTID, ARBEJDSSTYRKE, *
// * LEDIGHED OG PRODUKTIVITET *
// *****

// *** 8.1 BESKÆFTIGELSE I TIMER ***

// PRIVATE BYERHVERV
FRML _D      log(HQpbw) = log(fYfpb) + log(bywlpb_s) + log(pyfpbw) - log(lpb);
FRML _D      log(HQpbn) = (log(fYfpb)-log(dtapb)-bykpb_s*log(fKpb)-(1-bywlpb_s-bykpb_s)*logfyfud)/bywlpb_s;
FRML _S__D   log(HQpb)  = (1-dxvyfhp)*((0.75598)*(0.75*log(HQpbn)+0.25*log(HQpb_s))
                        + (0.24402)*(0.75*log(HQpbn[-1])+0.25*log(HQpb_s[-1]))
                        + JRHQpb)
                        + dxvyfhp*log(fYfpb/vyfhpbx);

// ØVRIGE ERHVERV OG AGGREGATER
FRML _G      HQa      = (1-dxvyfha)*HQax + dxvyfha*fYfa/vyfha;
FRML _D      HQs      = Qws*hgs/1000;
FRML _D      HQo      = Qo*hgo/1000;
FRML _D      HQpr     = HQn + HQe + HQa + HQh + HQs;
FRML _D      HQr      = HQpr + HQo;
FRML _D      HQ       = HQpb + HQr;

// *** 8.2 BESKÆFTIGELSE I PERSONER ***

FRML _D      Qn       = HQn/hgn*1000;
FRML _D      Qwn      = Qn;

FRML _D      Qe       = HQe/hge*1000;
FRML _D      Qwe      = Qe;

FRML _D      Qa       = HQa/hga*1000;
FRML _D      Qsa      = bqsa*Qa;
FRML _D      Qwa      = Qa-Qsa;

FRML _D      Qpb      = HQpb/hgpb*1000;
FRML _D      Qspb     = bqspb*Qpb;
FRML _D      Qwpb     = Qpb-Qspb;

FRML _D      Qh       = HQh/hgh*1000;
FRML _D      Qwh      = Qh;

FRML _D      Qwo      = Qo;
FRML _D      Qwp      = Qwpb + Qwn + Qwa + Qwh + Qwe + Qws;
FRML _D      Qw       = Qwp + Qwo;

FRML _D      Qps      = Q - Qos;

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FRML _D      Qs      = Qspb + Qsa;
FRML _I      Q       = Qw + Qs;

FRML _GJ_D   Diff(Qm) = Diff(Qmb + Qmf + Qms + Qmr);
FRML _I      Q1      = Q + Qm;

// *** 8.3 GENNEMSNITLIG ARBEJDSTID ***

FRML _DJ_D   hg_s    = exp(log(ha) + dthg); // Formuleret så Jled er i timer/år
FRML _GJRD   Dlog(hgw) = 0.25*Dlog(hg_s) - 0.06*Q_gap/100 + ghgw - 0.4*(log(hg[-1]) - log(hg_s[-1]));

FRML _GJRD   hga     = khga*hwg;
FRML _GJRD   hge     = khge*hwg;
FRML _GJRD   hgh     = khgh*hwg;
FRML _GJRD   hgn     = khgn*hwg;
FRML _GJRD   hgo     = khgo*hwg;
FRML _GJRD   hgs     = khgs*hwg;
FRML _G      hgpb    = khgpb*hwg;

FRML _D      hg      = HQ/Q*1000;

// *** 8.4 TIMEPRODUKTIVITET ***

FRML _D      vyfhp    = fYfpb/HQpb;
FRML _D      vyfha    = fYfa/HQa;
FRML _D      vyfhe    = fYfe/HQe;
FRML _D      vyfhn    = fYfn/HQn;
FRML _D      vyfhh    = fYfh/HQh;
FRML _D      vyfhs    = fYfs/HQs;
FRML _D      vyfho    = fYfo/HQo;
FRML _D      vyfhr    = fYfr/HQr;
FRML _D      vyfh     = fYf/HQ;

// *** 8.5 PERSONPRODKTIVITET I HELE ØKONOMIEN ***

FRML _D      vy       = fY/Q;

// *** 8.5 ARBEJDSTYRKE, LEDIGHED, AKTIVEREDE ***

// Arbejdsstyrke
FRML _D      Ua       = Ua_s + Ua_k;
FRML _SJ_D   Ua_k     = 0.5*(Q-Q_s);

// PERSONER PÅ INDKOMSTOVERFØRSLER

// Ledige
FRML _D      Ul       = Ua - Q;
FRML _G      Ulu     = bulu*Ul;
FRML _D      Uldp    = Ul - Ulu;
FRML _D      Uldpd   = Uldp - Uldpa;
FRML _D      Ulbak   = (Uakx+Qltjd) + bulbak*(Ukak+Qltjk);
FRML _D      Ulb     = Ul + Ulbak;

// Ledighedsrate
FRML _D      bul     = Ul/Ua;
FRML _D      bul_s   = Ul_s/Ua_s;

// Aktiverede uden for arbejdsstyrken
FRML _D      Uakx    = Uakx_s + Uakx_k;

// Konjunkturbidrag i arbejdsstyrken fordelt på konjunkturfølssomme grupper af indkomstoverførselsmodtagere
FRML _SJ_D   Uuxa_k   = -0.33*Ua_k;
FRML _SJ_D   Uakx_k   = -0.07*Ua_k;
FRML _SJ_D   Ukak_k   = -0.08*Ua_k;
FRML _SJ_D   Ukxa_k   = -0.15*Ua_k;
FRML _SJ_D   Upfo_k   = -0.13*Ua_k;

// Faktisk antal i konjunkturfølssomme grupper
FRML _D      Uuxa     = Uuxa_s + Uuxa_k;
FRML _D      Ukxa     = Ukxa_s + Ukxa_k;
FRML _D      Ukak     = Ukak_s + Ukak_k;
FRML _D      Upfo     = Upfo_s + Upfo_k;
FRML _D      Ufo      = Upfo_s + Qpfo_s + Upfo_k + Qpfo_k;
FRML _D      Ufp      = Upfp + Qpfp;
FRML _D      Uss      = Ums + Qms;
FRML _D      Usb      = Umb + Qmb;

// Indkomstoverførselsmodtagere udenfor beskæftigelse
FRML _D      Ux       = Upfp + Uptp + Upfo + Uef + Uov + Ufy + Uldpd + Uldpa + Ulu +
                       Ums + Umb + Usf + Umr + Ufdp +
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Uly + Uakx + Ury + Ukak + Ukxa + Ukf + Umj;
FRML _D      Ux_s      = Upfp + Uptp + Upfo_s + Uef + Uov + Ufy + Uldpd + Uldpa + Ulu +
                    Ums + Umb + Usf + Umr + Ufdp +
                    Uly + Uakx_s + Ury + Ukak_s + Ukxa_s + Ukf + Umj;

// Restgruppe
FRML _D      Ur_s      = U- (Ua_s+Uuxa_s+Uakx_s+Ukak_s+Ukxa_s+Upfo_s+
                    Ub+Uss+Usb+Usf+Umr+Ufdp+Uef+Uov+Ufy+Uly+Ury+Upfp+Uptp+Upt+Umj);
FRML _D      Ur_k      = - (Ua_k+Uuxa_k+Uakx_k+Ukak_k+Ukxa_k+Upfo_k);
FRML _D      Ur        = Ur_s + Ur_k;

// I beskæftigelse
FRML _G      Qltjd     = bqltjd*(Uldp+Uldp[-1])/2;
FRML _G      Qltjk     = bqltjk*(Ulu+Ulu[-1])/2;
FRML _G      Qpfo_k    = -0.5*Upfo_k;
FRML _D      Qu        = Qpfp + Qptp + (Qpfo_s+Qpfo_k) + Qms + Qmb + Qltjd + Qltjk;

// *****
// * 9. DEN OFFENTLIGE SEKTOR *
// *****

// *** 9.1 OFFENTLIG PRODUKTION, FORBRUG OG INVESTERINGER ***

// PRODUKTION, BVT OG FORBRUG, MÆNGDER
FRML _G      fXo        = (aoco*fCo + fIofu)/(1-aoo-kocx);

FRML _D      fYfo      = fXo*ayfo;
FRML _G      Qo        = (fYfo-fIvo)/(kfYfo*hgo);
FRML _G      Qos       = kqos*Qo;

FRML _D      fVeo      = fXo*aeo;
FRML _D      fVmo      = fXo*(apbo+aoo+amxo+asvo);

FRML _G      fCoc      = dkcoc*kcoc*fCo + (1-dkcoc)*fCoc[-1]*(1+Dlog(fy_tr)+Dlog(py_s)-Dlog(pcoz));
FRML _D_D    kcoc      = fcoc/fco;

FRML _G      fCoi      = (1-kcoc)*fCo;

FRML _GJR    fCogl     = fCogl[-1]*(fCo/fCo[-1]);
FRML _D      pcogl     = Co/fCogl;

FRML _GJR    fCozgl    = fCozgl[-1]*(fCoz/fCoz[-1]);
FRML _D      pcozgl    = Coz/fCozgl;

// Offentligt forbrug ekskl. afskrivninger (FCOZ)
// individuelt off.forbrug består af 2/3 off.besk. og 1/3 varekøb, følger demo. og velstandskorr.træk
// kollektivt off.forbrug følger trendmæssigt BNP
FRML _D      vfcoz     = (1-kcoc)*((2/3)*vdemo+(1/3)*(Dlog(vyfhpb_tr)+vdemo)) // individuelt
                    + kcoc*(Dlog(fy_tr)+Dlog(py_s)-Dlog(pcoz)); // kollektivt
FRML _GJR    Dlog(fCoz) = vfcoz;
FRML _D      Coz       = Co - Ivos;
FRML _D      pcoz      = Coz/fCoz;

FRML _D      fCo       = (fCoz*pcoz[-1]+fIvos*pivos[-1])/pco[-1];

// PRODUKTION, BVT OG FORBRUG, VÆRDIER
FRML _G      Yfo       = Ywo + Ivos*kivo + Sigo;
FRML _G      Vos       = Vo*kvos;
FRML _G      Ywos      = Ywo*kywos;
FRML _G      Yfos      = Ywos + Ivos + Sigo*ksiqos;
FRML _D      Xos       = Yfos + Vos;

FRML _D      Xo        = Yfo + Vo;
FRML _D      Co        = pco*fCo;

FRML _G      Coc       = kcoc*Co;
FRML _G      Coi       = (1-kcoc)*Co;

FRML _G      Vo        = fXo*(aeo*pxe + apbo*pxpb + aoo*pxo + amxo*(pmx+tmx))*kpvo + Sipvo + Sigvo;

// INVESTERINGER, VÆRDI OG MÆNGDE

// Offentligt produceret forskning og udvikling
FRML _GJ_D   Iofu      = tiofu*Y_s;
FRML _G      piofu     = pxo*kpiofu;
FRML _D      fiofu     = Iofu/piofu;

// Afskrivninger
FRML _D      fIvo      = (dprmo*fKmo[-1] + dprbo*fKbo[-1]);
FRML _G      Ivos      = dxivos*bivos*Co + (1-dxivos)*pivos*fIvos;
FRML _G      fIvos     = dxivos*(Ivos/pivos) + (1-dxivos)*kfivos*fIvo;

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// Investeringer
FRML _D      fIos      = (fIxos*pixos[-1]+fIofu*piofu[-1])/pios[-1];
FRML _G      fIbos      = bibos*fIxos;

FRML _D      fImxos     = (fIxos*pixos[-1]-fIbos*pibos[-1])/pimxos[-1];
FRML _D      fimos      = (fImxos*pimxos[-1]+fIofu*piofu[-1])/pimos[-1];

// *** 9.2 NETTOFORDRINGSERHVERVELSE OG RENTESTRØMME ***
FRML _D      Tfopn      = Tfoip - Tfoup;
FRML _D      Tfon       = Tfopn + Tiion;
FRML _D      Tfoip      = Sd + (Si-Sim-Sisu) + Sa + Tfoiq;
FRML _D      Tfoiq      = Ivos + Typri + Tphpho + Tiov + Tior + Teur + Tapo + Tafo + Tkpo + Tkfo;

FRML _D      Tfoup      = Co + Ty + Ios - Sisudk + Tfouq;
FRML _D      Tfouq      = Teubz + Taop + Taof + Tkop + Tkof;

FRML _D      Tion       = Ti_z_o - Ti_o_z;
FRML _D      Tiion      = Tir_z_o - Ti_o_z;
FRML _D      Ti_z_o     = Tir_z_o + Tiov + Tior;
FRML _GJ_D   Tir_z_o    = (iwb10ys+rpiw_z_o)*W_z_o[-1];
FRML _GJ_D   Ti_o_z    = (iwb10ys+rpiw_o_z)*W_o_z[-1];
FRML _D      Tiov       = Tiovr + Tiovn;
FRML _D      Tior       = Tiorr + Tiorn + Tiro + Tirk;

FRML _G      W_z_o      = (Y/Y[-1]-1)*W_z_o[-1] + kw_z_o + Ow_z_o + W_z_o[-1];
FRML _G      W_o_z      = (Diff(W_z_o)-Ow_z_o) - Tfon + Ow_o_z + W_o_z[-1];
FRML _D      Wn_o       = W_z_o - W_o_z;

FRML _GJ_    emugld     = emugld[-1] + Diff(W_o_z) - Ow_o_z;

// *** 9.3 OFFENTLIGE TRANSFERERINGER MV. ***

// Indkomstoverførlser i alt
FRML _D      Ty         = Typ + Tyd + Tym + Tyu + Tyr;
FRML _D      Ty_off10   = Ty + Taopi + Taopy;

// Tilbagetrukne
FRML _G      Typfp      = psrty*ttypfp*Ufp*0.001;
FRML _G      Typfo      = psrty*ttypfo*Ufo*0.001;
FRML _G      Tytp      = psrty*ttytp*(Utp+Qtp)*0.001;
FRML _G      Type       = psrty*ttype*(Uef+Uov+Ufy)*0.001;
FRML _G      Typr       = psrty*typrx;
FRML _D      Typ        = Typfp + Tytp + Typfo + Type + Typr + Typfu;

// Dagpenge
FRML _G      Tydd       = psrty*ttydd*Uldpd*0.001;
FRML _G      Tyda       = psrty*ttyda*Uldpa*0.001;
FRML _D      Tyd        = Tydd + Tyda;

// Midlertidigt udenfor arbejdsmarkedet
FRML _G      Tyms       = psrty*ttyms*Uss*0.001;
FRML _G      Tymb       = psrty*ttymb*Usb*0.001;
FRML _G      Tymf       = psrty*ttymf*Usf*0.001;
FRML _G      Tymr       = psrty*ttymr*Umr*0.001;
FRML _G      Tymfdp     = psrty*ttymdp*Ufdp*0.001;
FRML _D      Tym        = Tyms + Tymb + Tymf + Tymr + Tymfdp;

// Uddannelse, aktivering mv.
FRML _G      Tyuak      = psrty*ttyuak*Uakx*0.001;
FRML _G      Tyukak     = psrty*ttyukak*Ukak*0.001;
FRML _G      Tyuly      = psrty*ttyuly*Uly*0.001;
FRML _G      Tyury      = psrty*ttyury*Ury*0.001;
FRML _G      Tyusu      = psrty*ttyusu*Usu*0.001;
FRML _D      Tyu        = Tyuly + Tyuak + Tyury + Tyusu + Tyukak;

// Øvrige skattepligtige indkomstoverførlser (kontanthjælp mv.)
FRML _G      Tyksl      = psrty*ttyks*Ulu*0.001;
FRML _G      Tyksr      = psrty*ttyks*Ukxa*0.001;
FRML _D      Tyks       = Tyksl + Tyksr;
FRML _G      Tyrkrsf    = psrty*ttyrkrsf*Ukf*0.001;
FRML _G      Tyrsq      = psrty*Tyrsqx;
FRML _D      Tyrs       = Tyrsq + Tyrkrsf;

// Ikke-skattepligtige indkomstoverførlser
FRML _G      Tykr       = psrty*tykrx;
FRML _G      Tyrbf      = pttyp*ttyrbf*Ub*0.001;
FRML _G      Tyrgc      = ttyrgc*(U-Ub)*0.001;
FRML _G      Tyrmc      = psrty*ttyrmc*btyrmc*(Ufp+Ufo)*0.001;
FRML _G      Tyrhs      = psrty*Tyrhsx;
FRML _G      Tyrhy      = psrty*ttyrhy*(Ufp+Ufo)*0.001;
FRML _G      Tyrrr      = psrty*Tyrrrx;

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FRML _D      Tyr      = Tykr + Tyrbf + Tyrhs + Tyrhy + Tyrrr + Tyrgc + Tyrmc;
FRML _D      Tyr      = Tyks + Tyrs + Tyr;

// Satsreguleringsindeks og pristalsreguleringsindeks
FRML _GJRD Dlog(psrt) = Dlog(lnap[-2]*(1-sap[-2])*ha[-2]*(1-tsda));
FRML _GJRD pttyp      = pttyp[-1]*(pcp[-2]/pcp[-3]);
FRML _GJRD pfnp      = pfnp[-1]*(pncp[-2]/pncp[-3]);

// Øvrige offentlige udgifter
FRML _GJ_D   Taopi     = psrty*Taopix;
FRML _GJ_D   Taopy     = psrty*Taopyx;
FRML _GJ_D   Taopr     = ttaopr*Y_s;
FRML _D      Taop      = Taopi + Taopy + Taopr;

FRML _GJ_D   Tkoepf    = psrty*ttkoepf*btkoepf*(btpef*Ua)*0.001;
FRML _GJ_D   Tkopr     = ttkopr*Y_s;
FRML _D      Tkop      = Tkopr + Tkoepf;

// *** 9.4 SAMLEDE OG DIREKTE SKATTER ***

FRML _D      S         = Sd + Si - Sis + Sa;
FRML _D      Sd        = Sdk + Sdv + Sdu + Sda + Sdp + Sds + Sdr + Sdm;
FRML _D      Sdk       = Ssy + Ssfk;
FRML _G      Sdp       = tsdpk*Tppku + Sdpa;

FRML _GJ     Tippss    = - (iwbb+d6600*iwb30yr+(1-d6600)*(0.5*iwb30yr+0.5*iwbfyr))*Wbh
FRML _G      Ylws      = Saso + Tpa + Tpef + kylws*psrty*Q;

FRML _G      Ysp       = kysp*((Ywl+Twen-Typri) + (Ty-Tyrr-Typfu) + (Tplu-(Tppil+Tppik))) - Sda;
FRML _G      Ys        = kys*(Ysp + Yrphs + Tippss) - Ylws;

FRML _D      btippss   = Tippss/Ys;
FRML _GJ_D   bysk      = bysk_s + 0.11*(btippss-btippss_s);
FRML _DJ     tssp0     = bysb*tsb + bysm*tsm + byst*ts;
FRML _DJ     tss0      = bysk*tsk + byss*tss;

FRML _GJ_D   Ssyn      = (1-d4711)*(0.08-tss)*btippssn*Tippss;

FRML _GJ     Ssysp     = tssp0*kssysp*Ysp - Ssyn;
FRML _GJ     Ssys      = tss0*kssys*Ys;

FRML _GJ_D   Ssyey     = kssyey*tqkej*phk*fKeh[-1];

FRML _GJ_D   Ssyd      = tssyd*Y_s;
FRML _GJ_D   Ssya      = tssya*Y_s;
FRML _GJ_D   Ssyv      = tssyv*Y_s;

FRML _D      Ssy       = Ssys + Ssysp + Ssyd + Ssya + Ssyey + Ssyv;

FRML _G      Sdv       = tsdv*fKcb[-1];
FRML _G      Sdu       = tsdu*Qw;

FRML _G      Ysda      = kysda*(Ywl-Typri);
FRML _GJ_D   Sda       = tsda*Ysda;

FRML _G      Sdm       = psrty*tsdm*ksdm*(U-Ub)*0.001;

FRML _G      Ysdsq     = kysdsq*(Yfpb-Ywlpb-(Siqpb-Siqwpb));
FRML _GJ_D   Sdsq      = tsds*Ysdsq;

FRML _GJ_D   Sn        = tsn*fXn*(pwoil/80.07)*(vusa/562.33963);
FRML _G      Sdsn      = (1-btiro-btiorn-btiovn-btirk)*Sn;

FRML _G      Sds       = Sdsq + Sdsn;

FRML _G      Tiro      = btiro*Sn;
FRML _G      Tiorn     = btiorn*Sn;
FRML _G      Tiovn     = btiovn*Sn;
FRML _G      Tirk      = btirk*Sn;

FRML _GJ_D   Sdr       = tsdr*bsdr*(Tippn+Opp);

// *** 9.5 INDIREKTE OG ANDRE SKATTER ***

FRML _D      Si        = Sim + Sip + Sig + Sir + Siq;
FRML _D      Siv       = Sim + Sip + Sig + Sir;
FRML _D      Sim       = fMe*tme + fMx*tmx;

FRML _GJ_D   Sipaf_pso = ksippso*(Sippso+Siqps)*1.04;

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FRML _DJ_D      tpvea      = tpvea[-1]*(pfnp/pfnp[-1]);
FRML _DJ_D      tpvepbx    = tpvepbx[-1]*(pfnp/pfnp[-1]);
FRML _DJ_D      tpveo      = tpveo[-1]*(pfnp/pfnp[-1]);
FRML _DJ_D      tpvee      = tpvee[-1]*(pfnp/pfnp[-1]);
FRML _DJ_D      tpves      = tpves[-1]*(pfnp/pfnp[-1]);
FRML _DJ_D      tpcecx     = tpcecx[-1]*(pfnp/pfnp[-1]);
FRML _DJ_D      tpvmh      = tpvmh[-1]*(pfnp/pfnp[-1]);
FRML _DJ_D      tpvmn      = tpvmn[-1]*(pfnp/pfnp[-1]);

FRML _D         tpce       = tpcecx + (0.25*Sippso - 0.33*Sipaf_pso)/fCe;
FRML _D         tpvepb    = tpvepbx + (0.5*Sippso - 0.67*Sipaf_pso)/fVepb;

FRML _D         Sip        = Sipv + Sipef;
FRML _D         Sipef     = Sipcp + Sipco + Sipin + Sipex + Sipur;
FRML _D         Sipcp     = tpce*fCe + tpcb*fCb + tpcx*fCx + tpch*fCh;
FRML _D         Sipco     = tpco*fCo;
FRML _D         Sipin     = tpibps*fIbps + tpimps*fImps +
                          tpimos*fImxos + tpibos*fIbos +
                          tpibh*fIbh + tpil*fIl;
FRML _D         Sipex     = Sipee + Sipeq + .25*Sippso;

FRML _D         Sig        = Sigcp + Sigco + Sigin + Sigv;
FRML _D         Sigcp     = btgce*tg*fCe*(pce/(1+btgce*tg)) +
                          btgcb*tg*fCb*(pcb/((1+trcb)*(1+btgcb*tg))) +
                          btgcx*tg*fCx*(pcx/(1+btgcx*tg)) +
                          btgch*tg*fCh*(pch/(1+btgch*tg));
FRML _D         Sigco     = btgco*tg*fCo*(pco/(1+btgco*tg));
FRML _D         Sigin     = btgibh*tg*fIbh*(pibh/(1+btgibh*tg)) +
                          btgimps*tg*fImps*(pimps/((1+trimps)*(1+btgimps*tg))) +
                          btgimos*tg*fImxos*(pimxos/(1+btgimos*tg)) +
                          btgibos*tg*fIbos*(pibos/(1+btgibos*tg)) +
                          btgibps*tg*fIbps*(pibps/(1+btgibps*tg)) +
                          btgil*tg*fIl*(pil/(1+btgil*tg));
FRML _D         Sir       = trcb*fCb*(pcb/(1+trcb)) + trco*fCo*(pco/(1+trco))
                          + trimps*fImps*(pimps/(1+trimps));

FRML _GJ        Siq        = Siqu + Siqab + Siqej + Siqv + Siqam + Siqco2 + Siqr + Siqsu;

FRML _G         Siqu      = tqu*Qw*0.001;
FRML _G         Siqab     = tqab*ksiqab*Yw;
FRML _G         Siqam     = ksqiam*Ywpb;

FRML _GJRD      Siqejh    = tsiqej*ksiqejh*0.3*phk*fKeh[-1];
FRML _G         Siqej     = (1-dxsiqej)*ksiqej*Siqejh + dxsiqej*siqejx;
FRML _G         ksqiejh   = (1-dxsiqej)*ksiqejhx + dxsiqej*(Siqej/ksiqej)/(tsiqej*0.3*phk*fKeh[-1]);

FRML _GJ_D      Siqv      = tsiqv*Y_s;
FRML _D         Siqsu     = Siqsq + Siqlt + Siqaa + Siqpsu;
FRML _GJ_D      Siqsh     = tsiqsh*Y_s;
FRML _GJ_D      Siqsr     = tsiqsr*Y_s;
FRML _GJ_D      Siqeur    = tsiqeur*Y_s;
FRML _D         Siqsq     = Siqsr + Siqsh + Siqeur;
FRML _D         Siqlt     = psrty*tsiqlt*(Qltjd+Qltjk+Qltfs+Umj)*0.001;

FRML _GJ_D      Sipur     = tsipur*Y_s;
FRML _D         Sipsu     = Sipur + (Sipaa + Sipsuer) + Sipee + Sippso;
FRML _D         Sisu     = Sipsu + Siqsu;
FRML _D         Sisudk    = (Sipur + Sippso) + (Siqsh + Siqsr + Siqlt + Siqpsu);
FRML _D         Sisueu    = (Sipee + Sipaa + Sipsuer) + Siqeu;

FRML _D         Saso     = Saqwy + Sar;

FRML _GJ_D      Saqwy     = taqwy*kaqwy*Ysda;

FRML _GJ_D      Sartpt    = tsartpt*Y_s;
FRML _GJ_D      Sarr     = tsarr*Y_s;
FRML _D         Sar       = Sartpt + Sarr;
FRML _GJ_D      Sak       = tsak*Y_s;
FRML _D         Sa        = Sak + Saso;

// ERVHERVSFORDELTE SKATTER

FRML _D         Sipvmn    = tpvmn*fVmn;
FRML _D         Sipvn     = sipvmn;

FRML _D         Sipvee    = tpvee*fVee;
FRML _D         Sipvme    = tpvme*fVme;
FRML _D         Sipve     = Sipvee + Sipvme;

FRML _D         Sipvea    = tpvea*fVea;
FRML _D         Sipvma    = tpvma*fVma;
FRML _D         Sipva     = Sipvea + Sipvma + ((Sipaa+Sipsuer)-Sipeq);

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FRML _D      Sipvepb = tpvepb*fVepb;
FRML _D      Sipvmpb = tpvmpb*fVmpb;
FRML _D      Sipvpb  = Sipvepb + Sipvmpb;

FRML _D      Sipvmh  = tpvmh*fVmh;
FRML _D      Sipvh   = Sipvmh;

FRML _D      Sipves  = tpves*fVes;
FRML _D      Sipvms  = tpvms*fVms;
FRML _D      Sipvs   = Sipves + Sipvms;

FRML _D      Sipveo  = tpveo*fVeo;
FRML _D      Sipvmo  = tpvmo*fVmo;
FRML _D      Sipvo   = Sipveo + Sipvmo;

FRML _D      Sipv    = Sipvn + Sipve + Sipva + Sipvpb + Sipvh + Sipvs + Sipvo;

FRML _D      Sigvn   = btgvn*tg*Vn/(1+btgvn*tg);
FRML _D      Sigve   = btgve*tg*Ve/(1+btgve*tg);
FRML _D      Sigva   = btgva*tg*Va/(1+btgva*tg);
FRML _D      Sigvpb  = btgvpb*tg*Vpb/(1+btgvpb*tg);
FRML _D      Sigvh   = btgvh*tg*Vh/(1+btgvh*tg);
FRML _D      Sigvs   = btgvs*tg*Vs/(1+btgvs*tg);
FRML _D      Sigvo   = btgvo*tg*Vo/(1+btgvo*tg);

FRML _D      Sigv    = Sigvn + Sigve + Sigva +Sigvpb + Sigvh + Sigvs + Sigvo;

FRML _D      Siqw    =      Siqu +      Siqab +      Siqam +      Siqlt;
FRML _GJ     Siqwn   = 0      *Siqu +0      *Siqab +0      *Siqam +0      *Siqlt;
FRML _GJ     Siqwe   = 0      *Siqu +0.01*Siqab +0      *Siqam +0      *Siqlt;
FRML _GJ     Siqwa   = 0.02*Siqu +0.03*Siqab +0      *Siqam +0.01*Siqlt;
FRML _GJ     Siqwh   = 0      *Siqu +0.01*Siqab +0      *Siqam +0      *Siqlt;
FRML _GJ     Siqws   = 0      *Siqu +0.01*Siqab +0      *Siqam +0.01*Siqlt;
FRML _GJ     Siqwo   = 0.29*Siqu +0      *Siqab +0      *Siqam +0.40*Siqlt;
FRML _I      Siqvpb  = Siqw-(Siqwa+Siqwn+Siqwe+Siqwh+Siqws+Siqwo);

FRML _D      Siquejxh = Siquej-Siquejh;
FRML _GJ_D   Siqn    = Siqwn +0      *Siquejxh +0      *Siqv +0      *Siqco2 +0      *Siqr +0      *Siqsq      ;
FRML _GJ_D   Siqe    = Siqwe +0.02*Siquejxh +0.01*Siqv +0.03*Siqco2 +0.01*Siqr +0.01*Siqsq +Siqps0;
FRML _GJ_D   Siqa    = Siqwa +0.13*Siquejxh +0.05*Siqv +0.03*Siqco2 +0.02*Siqr +0.37*Siqsq +Siqaa ;
FRML _GJ_D   Siqh    = Siqwh +0      *Siquejxh +0      *Siqv +0.05*Siqco2 +0.01*Siqr +0.21*Siqsq +Siquejh;
FRML _GJ_D   Siqs    = Siqws +0.01*Siquejxh +0      *Siqv +0.06*Siqco2 +0.01*Siqr +0.01*Siqsq      ;
FRML _GJ_D   Siqo    = Siqwo +0.16*Siquejxh +0.01*Siqv +0.15*Siqco2 +0.02*Siqr +0.06*Siqsq      ;
FRML _I      Siqpb   = Siq-(Siqa+Siqn+Siqe+Siqh+Siqs+Siqo);

// ØVRIGE OFFENTLIGE INDTÆGTER
FRML _GJ     Typri    = ttypri*Y_s;

FRML _D      Tapo    = Tapok + Tapor;
FRML _GJ_D   Tapor   = ttapor*Y_s;
FRML _GJ_D   Tapok   = tks*btapok*Ys;

FRML _GJ_D   Tkpo    = ttkpo*Y_s;

FRML _D      Tbphe   = Tpaf + Tpef + Tpr;
FRML _GJ_D   Tpr     = ttpr*Y_s;
FRML _D      Tpaf    = psrty*ttpaf*Ua*0.001;
FRML _D      Tpef    = psrty*ttpef*btpef*Ua*0.001;

FRML _GJ_D   Teur    = tteur*Y_s;

// *****
// * 10. BETALINGSBALANCE OG UDLANDSGÆLD *
// *****

FRML _D      Tffn    = envt + Tifn + Twen + Teun + Tafpn - Typfu + (Tafo-Taof) + Tkfpn + (Tkfo-Tkof);
FRML _D      enl     = Tffn - Tkfpn - (Tkfo-Tkof) + enlr;
FRML _D      envt    = E - M;

FRML _D      Teun    = Teur - Teubz - Sim - Sisueu;
FRML _GJ_D   Teubz   = tteubz*Y_s;

FRML _D      Siqueu  = Siqaa + Siqueur;

FRML _GJ_D   Taoff   = ttaoff*Y_s;
FRML _GJ_D   Taofg   = ttaofg*Y_s;
FRML _GJ_D   Taofr   = ttaofr*Y_s;
FRML _G      Taof    = Taoff + Taofg + Taofr;

FRML _GJ_D   Tafo    = ttafo*Y_s;

FRML _GJ_D   Tkof    = ttkof*Y_s;

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FRML _GJ_D      Tkfo      = ttkfo*Y_s;

FRML _GJ_D      Twen      = ttwen*Y_s;
FRML _GJ_D      Tafpn     = ttafpn*Y_s;
FRML _GJ_D      Tkfpn     = ttkfpn*Y_s;

FRML _GJ        Wf        = Wf[-1] + Tffn;
FRML _G         Wfi       = kwfi*Y_s;
FRML _G         Wfu       = Wfi - Wf;

FRML _GJ        Tifn      = iwi*Wfi[-1] - iwu*Wfu[-1];

// *****
// * 11. PRIVAT SEKTOR *
// *   FORDRINGSERHVERVELSE, INDKOMST OG FORMUE *
// *****

// *** 11.1 INDKOMSTER ***

FRML _D         Yi        = Twen + Tifn - (Sipee + Sipaa + Sipsuer + Siqueu) - (Sim + Sipeu) + Y;
FRML _D         Yd        = (Yw-Typri) + (Yr-Ivos) + (Ty-Typfu) + Tipn - Sd;
FRML _D         Ydnr     = Yd + Twen - Saso - Tbphe + Taop - Tapo + Tafpn;

FRML _D         Ydly     = (Yw-Typri) + (Yr-Ivos) + (Ty-Typfu) + (Twen+Tafpn+Tkfpn)
                        + (Taop-Tapor+Tkop-Tkpo) + (Tipqn+Tippn);
FRML _D         Ydls     = (Sdk + Sdv + Sdu + Sda + Sdp + Sds + Sdr + Sdm) + Sa + Tapok + Tbphe;
FRML _D         Ydl      = Ydly - Ydls;

FRML _DJR       Ydky     = Yw1 + Ty;
FRML _DJR       Ydks     = tsda*Yw1 + (tsk+tss+tsb)*bysk*(1-tsda)*Yw1 + (tsk+tss+tsb)*bysk*(Ty-Tyrr);
FRML _D         Ydk      = Ydky - Ydks + Ydk1;

FRML _D         fYdl     = Ydl/pcp;
FRML _D         fYdk     = Ydk/pcp;

FRML _D         Tipn     = Tifn - Tion;
FRML _D         Tiipn    = Tifn - Tiion;
FRML _D         Tipqn    = Tipn - Tippn;
FRML _D         Tiipqn   = Tiipn - Tippn;

// *** 11.2 FORBRUGSBESTEMMENDE FORMUE OG NETTOFORDRINGSERHVERVELSE ***

FRML _GJR       Wbh      = bwbh*kfkbhe*phk*fKeh;

FRML _D         Wcp      = fKpb[-1]*pipb // Erhvervskapital (PB-erhverv som indikator)
                        + (1-kfkbhe)*fKbh[-1]*pibh // Erhvervskapital i form af boligudlejning
                        + kfkbhe*fKbh[-1]*phk // Ejerboligkapital
                        + fKcb[-1]*pcb // Bilkapital
                        + (Wpq[-1]+Wppq)/2 // Fri finansiel formue (negativ=realkreditlån)
                        + (1-tsdpk)*(Wppk[-1]+Wppk)/2 + (1-(tss0+tssp0))*(Wppl[-1]+Wppl)/2
                        + (Wppa[-1]+Wppa)/2; // Pensionsformue efter skat

FRML _D         Wp       = Wf - Wn_o;
FRML _D         Wpq     = Wp - Wpp;

FRML _D         Tfpn    = Tffn - Tfon;
FRML _D         Tfpm    = Tfpn - Tfpmn;

// *** 11.3 PENSIONER ***

// PENSIONSINDBETALINGER
FRML _G         Tppiaf   = btppiaf*(1-tsda)*Ysda;
FRML _G         Tppiaq   = btppiaq*(1-tsda)*Ysda;
FRML _G         Tppikf   = btppikf*(1-tsda)*Ysda;
FRML _G         Tppikq   = btppikq*(1-tsda)*Ysda;
FRML _G         Tppilf   = btppilf*(1-tsda)*Ysda + Tppilfty;
FRML _G         Tppilq   = btppilq*(1-tsda)*Ysda;
FRML _GJ        Tppilfty = btppilfty*(Tyd+Tyks+Tym+Type+Typfo+Tytp+Tyuak+Tyukak+Tyuly+Tyury);

FRML _G         Tppia    = Tppiaf + Tppiaq;
FRML _G         Tppik    = Tppikf + Tppikq;
FRML _G         Tppil    = Tppilf + Tppilq;
FRML _G         Tppi     = Tppia + Tppik + Tppil;
FRML _G         Tppfi    = Tppiaf + Tppikf + Tppilf;
FRML _G         Tppqi    = Tppiaq + Tppikq + Tppilq;

FRML _D         btppfi   = Tppfi/((1-tsda)*Ysda);
FRML _GJ_D      sap      = sap[-1] + (btppfi-btppfi[-1]);

// PENSIONSUDBETALINGER

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FRML _G      Tppua      = btpua*Wppa[-1];
FRML _G      Tppuk      = btpuk*Wppk[-1];
FRML _G      Tppul      = btpul*Wppl[-1];
FRML _D      Tppu       = Tppua + Tppuk + Tppul;
FRML _D      Tpplu      = Tppul;
FRML _D      Tppku      = Tppuk;

// OPBYGNING AF PENSIONSFORMUE
FRML _G      Tippn      = iwpp*Wpp[-1];
FRML _GJ_D   iopp       = bawpp*ioppa +
                        (1-bawpp)*(0.15+0.85*((1+(0.5*iwb10ys+0.5*iwb30yr))
                        / (1+(0.5*iwb10ys[-1]+0.5*iwb30yr[-1]))))**(-10) -1);
FRML _GJ_D   Opp        = iopp*Wpp[-1];

FRML _G      Ntppia     = (Tippn+Opp-Sdr)*(Wppa[-1]/Wpp[-1]) + Jntppia;
FRML _G      Ntppik     = (Tippn+Opp-Sdr)*(Wppk[-1]/Wpp[-1]) + Jntppik;
FRML _G      Ntppil     = (Tippn+Opp-Sdr)*(Wppl[-1]/Wpp[-1]) - (Jntppia+Jntppik);

FRML _D      Wppa       = Wppa[-1] + Ntppia + Tppia - Tppua;
FRML _D      Wppk       = Wppk[-1] + Ntppik + Tppik - Tppuk;
FRML _D      Wppl       = Wppl[-1] + Ntppil + Tppil - Tppul;
FRML _D      Wpp        = Wppa + Wppk + Wppl;

FRML _D      Tfppn      = Tppi - Tppu + Tippn - Sdr;

// *****
// * 12. LØN *
// *****

// *** 12.1 LØN ***

FRML _SJR_D  Dlog(lnap) = (1 - 0.317406)*(gpyfpbe + Dlog(vyfhp_b_s) + Diff(bywlp_b_s))
                        + 0.317406 * Dlog(lnap[-1])
                        + 0.20 * (Dlog(pyfpb)-gpyfpbe)
                        + glnap
                        - 0.609852 * (0.5*(bul-bul_s)+0.5*(bul[-1]-bul_s[-1]));

FRML _GJR_D  Dlog(lohkk) = Dlog(lnap[-1]);

// *** 12.2 LØNSUMMER OG LØNKVOTER ***

FRML _G      Ywpb       = klpb*(lnap*hgpb*Qwpb*0.001);
FRML _G      Ywa        = kla*(lnap*hga*Qwa*0.001);
FRML _G      Ywe        = kle*(lnap*hge*Qwe*0.001);
FRML _G      Ywh        = klh*(lnap*hgh*Qwh*0.001);
FRML _G      Ywn        = kln*(lnap*hgn*Qwn*0.001);
FRML _G      Yws        = kls*(lnap*hgs*Qws*0.001);
FRML _G      Ywo        = lohkk*hgo*Qwo*0.001;
FRML _D      Yw         = Ywpb + Ywa + Ywh + Ywe + Ywn + Yws + Ywo;

FRML _D      byw        = Yw/Yf;
FRML _D      bywpb      = Ywpb/Yfpb;

// med imputeret løn til selvstændige
FRML _G      Ywlpb      = lpb*HQpb;
FRML _G      Ywla       = la*HQa;
FRML _G      Ywle       = le*HQe;
FRML _G      Ywlh       = lh*HQh;
FRML _G      Ywln       = ln*HQn;
FRML _G      Ywls       = ls*HQs;
FRML _D      Ywl        = Ywlpb + Ywla + Ywlh + Ywle + Ywln + Ywls + Ywo;

FRML _D      bywl       = Ywl/Yf;
FRML _D      bywlp      = (Ywl-Ywo)/(Yf-Yfo);
FRML _D      bywlpb     = Ywlpb/Yfpb;

// *** 12.3 IMPLICIT TIMELØN ***
FRML _D      lpb        = klpb*lnap;
FRML _D      ln         = kln*lnap;
FRML _D      le         = kle*lnap;
FRML _D      la         = kla*lnap;
FRML _D      lh         = klh*lnap;
FRML _D      ls         = kls*lnap;

// *****
// * 13. DEFLATORER *
// *****

// *** 13.1 BVT-DEFLATORER ***

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// PRIVATE BYERHVERV
FRML _D      vlpbnp      = Dlog(lpb) - (vtfppb/bywlpb_s/100);

FRML _D      pyfpbw      = ((1/dtapb)*( lpb/bywlpb_s)**bywlpb_s *
                          (pkpb/bykpb_s)**bykpb_s *
                          (1/(1-bywlpb_s-bykpb_s))** (1-bywlpb_s-bykpb_s)
                          )** (1/(bywlpb_s+bykpb_s))
                          + (Siqpb-Siqwpb)/fYfpb;

FRML _SJR Dlog(pyfpb)    = (0.6528)*vlpbnp
                          + (0.25732)*vlpbnp[-1]
                          + gpyfpb
                          + (-0.12625)*(log(pyfpb[-1])-log(pyfpbw[-1]));

// H-ERHVERV
FRML _GJR D      pyfh      = exp(log(pib) - 0.1 + Jpyfh) + Siqh/fYfh;

// ØVRIGE PRIVATE ERHVERV (N,S) - RESTEN ER EKSOGENE
FRML _D      pyfn        = Yfn/fYfn;
FRML _D      pyfs        = Yfs/fYfs;

// *** 13.2 PRODUKTIONSVÆRDI-DEFLATORER ***
FRML _D      pxn          = (pee/kpee - (aece*pxe + ameee*pme + asvee*psiv))/anee;
FRML _D      pxe          = Xe/fXe;
FRML _D      pxa          = Xa/fXa;
FRML _D      pxpb        = Xpb/fXpb;
FRML _D      pxh          = Xh/fXh;
FRML _D      pxs          = pms;

// *** 13.3 NETTO-PRISER PÅ ENDELIG ANVENDELSE ***

// KORREKTIONSFAKTOR TIL PRISSAMMENBINDINGSRELATIONER
FRML _G      kkp          = kkp + 1 - (Cp + Co + I + E - M - Siv)
                          / (Yfpb + Yfa + Yfh + Yfn + Yfe + Yfs + Yfo);

// NETTOPRISER
FRML _G      pnce         = (aece*pxe + apbce*pxpb)*kpnce*kkp;
FRML _G      pncx         = (apbcx*pxpb + aocx*pxo + amxcx*(pmx+tmx))*kpncc*kkp;
FRML _G      pncb         = (apbcb*pxpb + amxcb*(pmx+tmx))*kpncc*kkp;
FRML _G      pnch         = (apbch*pxpb + ahch*pxh)*kpnch*kkp;
FRML _G      pnco         = (apbco*pxpb + aoco*pxo)*kpnco;
FRML _G      pnimx        = (apbim*pxpb + amxim*(pmx+tmx))*kpnimx;
FRML _G      pnib         = (apbib*pxpb)*kpnib;
FRML _G      pnex         = (aaex*pxa + apbex*pxpb + amxex*(pmx+tmx))*kpnex;

FRML _D      pncp         = ((pnce*fCe[-1] + pncx*fCx[-1] + pct*fCt[-1] +
                          pncb*fCb[-1] + pnch*fCh[-1] - pet*fEt[-1])/fCp[-1]);

// *** 13.4 MARKEDS-PRISER PÅ ENDELIGE ANVENDELSER ***

FRML _GJR D      pcp          = ((pce*fCe[-1] + pcx*fCx[-1] + pct*fCt[-1] +
                          pcb*fCb[-1] + pch*fCh[-1] - pet*fEt[-1])/fCp[-1]);

FRML _D      pce          = (1+btgce*tg)*(pnce+tpce);
FRML _D      pcx          = (1+btgcx*tg)*(pncx+tpcx+sipur/fCx);
FRML _D      pcb          = (1+btgcb*tg)*(pncb+tpcb)*(1+trcb);
FRML _D      pch          = (1+btgch*tg)*(pnch+tpch);
FRML _D      pct          = pmt;
FRML _D      pco          = (1+btgco*tg)*pnco*(1+trco);

FRML _D      pibps        = (1+btgibps*tg)*(kpibps*pnib+tpibps);
FRML _D      pibos        = (1+btgibos*tg)*(kpibos*pnib+tpibos);
FRML _D      pibh         = (1+btgibh*tg)*(kpibh*pnib+tpibh);

FRML _D      pimps        = (1+btgimps*tg)*(kpimps*pnimx+tpimps)*(1+trimps);
FRML _D      pimxos       = (1+btgimos*tg)*(kpimxos*pnimx+tpimos);

FRML _G      pil          = (0.1*pxe + 0.5*pxpb + 0.1*pme + 0.3*pmx)*kpil;

FRML _G      piv          = kpiv*(0.5*pim + 0.5*pib);
FRML _G      pivos        = kpivos*(0.5*pimos + 0.5*pibos);

FRML _D      pex          = pnex + Sipex/fEx;
FRML _D      pes          = pxs;
FRML _G      pet          = pcx*ket;

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// *** 13.5 ENERGIPRISER OG IMPORTPRIS ***

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// ENERGIIMPORT
FRML _D__D log(bpmew)      = kpmew;

FRML _SJR Dlog(pme)       = (0.72533)*Dlog(pwoil*vusa)
                          + gpme
                          + (-0.38198)*(log(pme[-1]/(pwoil[-1]*vusa[-1]))-log(bpmew[-1]));

// ENERGIEKSPORT
FRML _D__D log(bpeew)     = kpeew;

FRML _SJR Dlog(pee)       = (0.77784)*Dlog(pwoil*vusa)
                          + gppe
                          + (-0.41424)*(log(pee[-1]/(pwoil[-1]*vusa[-1]))-log(bpeew[-1]));

// *** 13.6 DEFLATORER PÅ AGGREGATER ***

FRML _D      py           = Y/fY;
FRML _D      pyf         = Yf/fYf;
FRML _D      pyfp        = Yfp/fYfp;
FRML _D      pyfo        = Yfo/fYfo;
FRML _D      pyfr        = Yfr/fYfr;

FRML _D      px           = X/fX;
FRML _D      pxo         = Xo/fXo;

FRML _D      pvx         = Vx/fVx;
FRML _D      psiv        = Siv/fSiv;

FRML _D      pca         = Ca/fCa;

FRML _D      pimos       = Imos/fImos;
FRML _D      pixos       = Ixos/fIxos;
FRML _D      pios        = Ios/fIos;

FRML _D      pib         = (pibps*fIbps + pibh*fIbh + pibos*fIbos)/fIb;
FRML _D      pimx        = Imx/fImx;
FRML _D      pim         = Im/fIm;
FRML _D      pif         = If/fIf;
FRML _D      pi          = I/fI;

FRML _D      paips       = Aips/fAips;
FRML _D      pai         = Ai/fAi;

FRML _D      pe          = E/fE;
FRML _D      pae         = Ae/fAe;

FRML _D      pm          = M/fM;
FRML _D      pat         = At/fAt;

// *****
// * 14. VÆRDIER *
// *****

// *** 14.1 TILGANG ***

FRML _I      At          = Yf + M + Siv;

// IMPORT
FRML _I      Mx          = pmx*fMx;
FRML _I      Me          = pme*fMe;
FRML _I      Ms          = pms*fMs;
FRML _I      Mt          = pmt*fMt;
FRML _I      M           = Mx + Me + Ms + Mt;

// PRODUKTION
FRML _I      Xn          = fXn*pxn;
FRML _I      Xe          = Yfe + Ve;
FRML _I      Xa          = Yfa + Va;
FRML _I      Xpb         = Yfpb + Vpb;
FRML _I      Xs          = fXs*pxs;
FRML _I      Xh          = Yfh + Vh;

FRML _D      Xpr         = Xn + Xe + Xa + Xs + Xh;
FRML _D      Xp          = Xpb + Xpr;
FRML _I      X           = Yf + Vx;

// VAREFORBRUG
FRML _D      Vn          = fXn*(apbn*pxpb)*kpv n + Sipv n + Sigv n;
FRML _D      Ve          = fXe*(ane*pxn + aee*pxe + apbe*pxpb + amee*(pme+tme))*kpv e + Sipv e + Sigv e;
FRML _D      Va          = fXa*(aea*pxe + aaa*pxa + apba*pxpb + amxa*(pmx+tmx))*kpv a + Sipv a + Sigv a;
FRML _D      Vpb         = fXpb*(aepb*pxe + aapb*pxa + apbbp*pxpb + aspb*pxs + amxpb*(pmx+tmx))*kpv pb

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+ Sipvpb + Sigvpb;
FRML _D Vs = fXs*(apbs*pxpb + ames*(pme+tme) + amss*pms)*kpvs + Sipvs + Sigvs;
FRML _D Vh = fXh*(apbh*pxpb)*kpvh + Sipvh + Sigvh;
FRML _D Vx = Vn + Ve + Va + Vpb + Vs + Vh + Vo;

// BVT
FRML _I Yfn = Xn - Vn;
FRML _I Yfe = pyfe*fYfe;
FRML _I Yfa = pyfa*fYfa;
FRML _I Yfpb = pyfpb*fYfpb;
FRML _I Yfs = Xs - Vs;
FRML _I Yfh = pyfh*fYfh;

FRML _D Yfpr = Yfn + Yfe + Yfa + Yfs + Yfh;
FRML _D Yfr = Yfpr + Yfo;
FRML _D Yfp = Yfpb + Yfpr;
FRML _I Yf = Yfp + Yfo;

// RESTINDKOMST
FRML _I Yrn = Yfn - Ywn - Sign;
FRML _I Yre = Yfe - Ywe - Siqe;
FRML _I Yra = Yfa - Ywa - Siqa;
FRML _I Yrpb = Yfpb - Ywpb - Siqpb;
FRML _I Yrs = Yfs - Yws - Siqs;
FRML _I Yrh = Yfh - Ywh - Siqh;
FRML _I Yro = Yfo - Ywo - Siqo;
FRML _I Yr = Yf - Yw - Siq;

// *** 14.2 ANVENDELSE ***

FRML _I Ai = Cp + Co + I;
FRML _D Aips = Ai - Co - Ios;
FRML _I Ae = Cp + Co + I + E;

FRML _I Y = Cp + Co + I - M + E;

// FORBRUG
FRML _I Cp = pcp*fCp;
FRML _I Cb = pcb*fCb;
FRML _I Ce = pce*fCe;
FRML _I Ct = pct*fCt;
FRML _I Ch = pch*fCh;
FRML _D Ca = Cx + Ce + Ch + Ct - Et;

// INVESTERINGER
FRML _I Ib = pib*fIb;
FRML _I Ibos = pibos*fIbos;
FRML _D Imx = Imps + Imxos;
FRML _D Im = Imx + Iofu;
FRML _I Imxos = pimxos*fImxos;
FRML _D Imos = Imxos + Iofu;
FRML _D Ixos = Ibos + Imxos;
FRML _D Ios = Imos + Ibos;
FRML _I Imps = pimps*fImps;
FRML _I Ibps = pibps*fIbps;
FRML _I Ibh = pibh*fIbh;
FRML _I If = I - Il;
FRML _I Iv = piv*fIv;
FRML _I I = pibh*fIbh +
pimps*fImps + pimxos*fImxos + piofu*fIofu +
pibos*fIbos + pibps*fIbps +
pil*fIl;

// EKSPORT
FRML _I Ex = pex*fEx;
FRML _I Ee = pee*fEe;
FRML _I Es = pes*fEs;
FRML _I Et = pet*fEt;
FRML _I E = Ex + Ee + Es + Et;

// *****
// * 15. RENTER OG VALUTAKURS *
// *****

FRML _GJ_D iwbfyr = 0.5*iwbecb + 0 *iwbl0ys + 0*iwb10ysdeu + 0.5 *iwbl30yr + rpiwbfyr;
FRML _GJ_D iwlo = 0.3*iwbecb + 0.7 *iwbl0ys + 0*iwb10ysdeu + 0*iwb30yr + rpiwlo;
FRML _GJ_D iwdeh = iwbecb + rpiwdeh;

FRML _GJ_D iwi = 0.5*iwbecb + 0.5*iwb10ysdeu + rpiwi;
FRML _GJ_D iwu = 0.5*iwbecb + 0.5 *iwbl0ys + rpiwu;
FRML _GJ_D iwpp = bawpp*iwppa + (1-bawpp)*(0.5*iwb10ys + 0.5*iwb30yr) + rpiwpp;

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FRML _GJRD Dlog(effkr)      = -0.250*Dlog(vusa) -0.120*Dlog(vswe) -0.116*Dlog(vgbr) -0.514*Dlog(veur);

// *****
// * 16. STRUKTURELLE NIVEAUER OG GAPS *
// *****

// STRUKTURELLE NIVEAUER
FRML _D      Q_s      = Ua_s - Ul_s;
FRML _D      HQ_s     = (hg_s/1000)*Q_s;
FRML _D      HQpb_s  = HQ_s - HQr;

FRML _D      vyfhr_s  = dxvyfhr_s*vyfhr + (1-dxvyfhr_s)*vyfhr_sx;
FRML _D      fYfr_s   = vyfhr_s*HQr;

FRML _D      log(fYfpb_s) = (log(dtapb) + byw1pb_s*log(HQpb_s) + bykpb_s*log(fKpb)
                             + (1-byw1pb_s-bykpb_s)*log(1-byw1pb_s-bykpb_s)
                             ) / (byw1pb_s+bykpb_s);
FRML _D      vyfhpb_s = fYfpb_s/HQpb_s;

FRML _D      fYf_s    = fYfr_s*(pyfr[-1]/pyf[-1]) + fYfpb_s*(pyfpb[-1]/pyf[-1]);
FRML _D      vyfh_s    = fYf_s/HQ_s;

FRML _GJRD    afgift_s = dxafgift_s*(fY/fYf) + (1-dxafgift_s)*(afgift_s[-1]
                             + 0.15*(fY[-1]/fYf[-1]-bafgift*(Cp[-1]/Ydl[-1])/bfcpw[-1]-1)-afgift_s[-1]);

FRML _D      fY_s     = fYf_s*afgift_s;
FRML _D      py_s     = dxpy_s*py + (1-dxpy_s)*py_sx;
FRML _D      Y_s      = py_s*fY_s;

// GAP
FRML _D      afgift_gap= ((fY/fYf)-afgift_s)/afgift_s*100;
FRML _D      kl_gap   = (log(fKpb/HQpb)-log(KLpbw_s))*100;
FRML _D      tfp_gap  = (log(dtapbf)-log(dtapb))*100;
FRML _D      vyfhpb_gap= (vyfhpb-vyfhpb_s)/vyfhpb_s*100;
FRML _D      vyfh_gap = (vyfh-vyfh_s)/vyfh_s*100;
FRML _D      hg_gap   = (hg-hg_s)/hg_s*100;
FRML _D      Ul_gap   = ((Ul/Ua)-(Ul_s/Ua_s))*100;
FRML _D      Ua_gap   = (Ua-Ua_s)/Ua_s*100;
FRML _D      Q_gap    = (Q-Q_s)/Q_s*100;
FRML _D      HQ_gap   = (HQ-HQ_s)/HQ_s*100;
FRML _D      fY_gap   = (fY-fY_s)/fY_s*100;
FRML _D      fYf_gap  = (fYf-fYf_s)/fYf_s*100;
FRML _D      Y_gap    = (Y-Y_s)/Y_s*100;
FRML _D      py_gap   = (py-py_s)/py_s*100;

FRML _D      konjgap  = 0.4*fYf_gap + 0.6*Q_gap;

// TRENDMESSIGE NIVEAUER
FRML _D      log(fYfpb_tr) = (log(dtapb) + (byw1pb_s+bykpb_s)*log(HQpb_s) + bykpb_s*log(KLpbw_s)
                             + (1-byw1pb_s-bykpb_s)*log(1-byw1pb_s-bykpb_s)
                             ) / (byw1pb_s+bykpb_s);
FRML _D      vyfhpb_tr  = fYfpb_tr/HQpb_s;
FRML _D      fYf_tr     = fYfr_s*(pyfr[-1]/pyf[-1]) + fYfpb_tr*(pyfpb[-1]/pyf[-1]);
FRML _D      fY_tr      = fYf_tr*afgift_s;

// *****
// * 17. STRUKTUREL SALDO *
// *****

// P-ligninger bliver predikeret efter RUNAFTER$ Læs <X>_temp som <X>

// SÆRLIGE POSTER
FRML _D      Tiiony    = Tiion/Y*100;
FRML _P      Tiion_s  = movavg(Tiion_temp[+3],7);

FRML _D      Sny      = Sn/Y*100;
FRML _P      Sn_s     = movavg(Sn_temp[+3],7);

FRML _D      Ssyay    = Ssya/Y*100;
FRML _DJ     Ssyaly   = Ssyay - Ssya_korr/Y*100;
FRML _P      Ssya_s   = movavg(Ssya_temp[+3],7);

FRML _P      Wpp_s    = movavg(Wpp_temp[+3],7);
FRML _P      Sdr_s    = tsdr*bsdr*(iwpp_s + (bawpp*ioppa_s + (1-bawpp)*ioppo_s))*Wpp_s;

// SPECIELLE POSTER
FRML _D      Tfon_spec = (Tafo + Tapor + Tkpo + Tkfo + Sak + Siqr) - (Taopr + Tkopr + Tkof);
FRML _D      Tfon_specy = Tfon_spec/Y*100;
FRML _DJ     Tfon_specly= Tfon_specy - Tfon_spec_korr/Y*100;
FRML _P      Tfon_spec_s= movavg(Tfon_spec_temp[+3],7);

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// ALMINDELIGE POSTER (= saldo - særlige - specielle)
FRML _D      Tfon_alm   = Tfon - (Sdr + Sn + Sir + Sdsq + Tiion + Ssya) - Tfon_spec;
FRML _D      Tfon_almly = Tfon_alm/Y*100;
FRML _DJ     Tfon_almly = Tfon_almly - Tfon_alm_korr/Y*100;
FRML _D      Tfon_alm_k = budgetfaktor*konjgap;
FRML _D      Tfon_alm_s = Tfon_almly - Tfon_alm_k;

// STRUKTUREL SALDO PÅ FM-METODE
FRML _P      Tfon_s_fm  = (Tfon_alm_s + Tfon_spec_s + Sdr_s + Sn_s + Ssya_s + Tiion_s)*(Y/Y_s)
                    + Sir_s + Sdsq_s;

// *****
AFTERS$
// *****

// *****
// * GENERERING AF JLED OG KFAKTORER *
// *****

FRML YJNTPPIK  Jntppik   = Ntppik - (Tippn + Opp - Sdr)*Wppk[-1]/Wpp[-1];
FRML YJNTPIIA  Jntppia   = Ntppia - (Tippn + Opp - Sdr)*Wppa[-1]/Wpp[-1];

FRML YHQAX     HQax      = HQa;
FRML YVYFHAX   vyfhax    = fYfa/HQa;
FRML YVYFHPBX  vyfhpbx   = fYfpb/HQpb;

FRML YJRHPQB   JRhpqb    = log(HQpb) - ((0.75598)*(0.75*log(HQpbn)+0.25*log(HQpb_s))
                    + (0.24402)*(0.75*log(HQpbn[-1])+0.25*log(HQpb_s[-1])));

FRML YJPYFH    Jpyfh     = log(pyfh-Siqh/fYfh) - (log(pib)-0.1);

FRML YKSSYEJ   kssyej    = Ssyej/(tqkej*phk*fKeh[-1]);
FRML YBIVOS    bivos     = Ivos/Co;
FRML YKFIVOS   kfivos    = fIvos/fIvo;

// *****
RUNAFTERS$
// *****

// *****
// * PREDIKTION AF LIGNINGER FX MED LEAD *
// *****

// *** STRUKTUREL SALDO ***
// Beregning af strukturel saldo starter i 2000, hvorfor data skal beregnes 3 år tidligere pga. gl.gns.
// Tilpasses 3 år efter slut (= %__simt2), så strukturel værdi er lig faktisk i slutår.
// P-ligninger predikteres

// SÆRLIGE POSTER
Tiion_temp    <2000-3      %__simt2 > = Tiiony;
Tiion_temp    <%__simt2+1 %__simt2+3> = (7*Tiiony[%__simt2]
                    - (Tiiony[%__simt2-3]+Tiiony[%__simt2-2]
                    +Tiiony[%__simt2-1]+Tiiony[%__simt2]))
                    )/3;

PREDICT       <2000 %__simt2> Tiion_s;

Sn_temp       <2000-3      %__simt2 > = Sny;
Sn_temp       <%__simt2+1 %__simt2+3> = (7*Sny[%__simt2]
                    - (Sny[%__simt2-3]+Sny[%__simt2-2]
                    +Sny[%__simt2-1]+Sny[%__simt2]))
                    )/3;

PREDICT       <2000 %__simt2> Sn_s;

Ssya_temp     <2000-3      %__simt2 > = Ssyay;
Ssya_temp     <%__simt2+1 %__simt2+3> = (7*Ssyay[%__simt2]
                    - (Ssyay[%__simt2-3]+Ssyay[%__simt2-2]
                    +Ssyay[%__simt2-1]+Ssyay[%__simt2]))
                    )/3;

PREDICT       <2000 %__simt2> Ssya_s;

```

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```
Wpp_temp <2000-3 %__simt2 > = Wpp[-1]/Y*100;
Wpp_temp <%__simt2+1 %__simt2+3> = (7*(Wpp[%__simt2-1]/Y[%__simt2]*100)
- ((Wpp[%__simt2-3-1]/Y[%__simt2-3]*100)
+ (Wpp[%__simt2-2-1]/Y[%__simt2-2]*100)
+ (Wpp[%__simt2-1-1]/Y[%__simt2-1]*100)
+ (Wpp[%__simt2-1]/Y[%__simt2]*100))
)/3;

PREDICT <2000 %__simt2> Wpp_s;
PREDICT <2000 %__simt2> Sdr_s;

// SPECIELLE POSTER
Tfon_spec_temp <2000-3 %__simt2 > = Tfon_specly;
Tfon_spec_temp <%__simt2+1 %__simt2+3> = (7*Tfon_specly[%__simt2]
- (Tfon_specly[%__simt2-3]+Tfon_specly[%__simt2-2]
+Tfon_specly[%__simt2-1]+Tfon_specly[%__simt2])
)/3;

PREDICT <2000 %__simt2> Tfon_spec_s;

// STRUKTUREL SALDO
PREDICT <2000 %__simt2> Tfon_s_fm;

// *****
// * SLUT PÅ SMEC *
// *****
```