Model file for Power supply variation

* SPICE 3f5 Level 8, Star-HSPICE Level 49, UTMOST Level 8

.lib cmos_models
* DATE: Feb 23/01
* LOT: T0BM   WAF: 07
* Temperature_parameters=Default
.MODEL nmos NMOS (LEVEL = 49
+VERSION = 3.1   TNOM   = 27   TOX   = 5.8E-9
+XJ   = 1E-7   NCH   = 2.3549E17   VTH0   = 0.3907535
+K1   = 0.4376003   K2   = 8.265151E-3   K3   = 4.214601E-3
+K3B   = -3.7220937   W0   = 2.517345E-6   NLX   = 2.310668E-7
+DVT0W = 0   DVT1W = 0   DVT2W = 0
+DVT0   = 0.2411602   DVT1   = 0.3707226   DVT2   = -0.5
+U0   = 316.5922683   UA   = -9.89493E-10   UB   = 2.154013E-18
+UC   = 2.474632E-11 VSAT   = 1.254499E5   A0   = 1.2735648
+AGS   = 0.2428704   B0   = 2.579719E-8 B1   = -1E-7
+KETA   = 4.87168E-4   A1   = 0   A2   = 0.5196633
+RDSW   = 120   PRWG   = 0.5   PRWB   = -0.2
+WR   = 1   WINT   = 2.357855E-8 LINT   = 1.210018E-9
+DWG   = 2.292632E-9
+DWB   = -9.94921E-10 VOFF   = -0.1039771   NFACTOR = 1.3905578
+CIT   = 0   CDSC   = 2.4E-4   CDSCD = 0
+CDSCB = 0   ETA0   = 3.894977E-3 ETAB   = 7.800632E-4
+DSUB   = 0.0307944   PCLM   = 1.7312397   PDIBLC1 = 0.999135
+PDIBLC2 = 4.850036E-3   PDIBLCB = -0.0866866   DROUT   = 0.8612131
+PSCBE1 = 7.995844E10   PSCBE2 = 1.457011E-8   PVAG   = 0.0099984
+DELTA = 0.01   RSH   = 5   MOBMOD = 1
+PRT   = 0   UTE   = -1.5   KT1   = -0.11
+KT1L   = 0   KT2   = 0.022   UA1   = 4.31E-9
+UB1   = -7.61E-18   UC1   = -5.6E-11   AT   = 3.3E4
+WL   = 0   WLN   = 1   WW   = -1.22182E-16
+WWN   = 1.2127   WWL   = 0   LL   = 0
+LLN   = 1   LW   = 0   LWN   = 1
+LWL   = 0   CAPMOD = 2   XPART   = 0.4
+CGDO   = 3.11E-10   CGSO   = 3.11E-10   CGBO   = 1E-12
+CJ   = 1.741905E-3   PB   = 0.9876681   MJ   = 0.4679558
+CJSW   = 3.653429E-10 PBSW   = 0.99   MJSW   = 0.2943558
+CF   = 0   PVTH0   = -0.01   PRDSW   = 0
+PK2   = 2.589681E-3   WKETA = -1.866069E-3 LKETA = -0.0166961   )
*
.MODEL pmos PMOS (LEVEL = 49
+VERSION = 3.1   TNOM   = 27   TOX   = 5.8E-9
+XJ   = 1E-7   NCH   = 4.1589E17   VTH0   = -0.583228
+K1   = 0.5999865   K2   = 6.150203E-3   K3   = 0
+K3B   = 3.6314079   W0   = 1E-6   NLX   = 1E-9
+DVT0W = 0   DVT1W = 0   DVT2W = 0

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+DVT0   = 2.8749516    DVT1   = 0.7488605    DVT2   = -0.0917408
+U0     = 136.076212   UA     = 2.023988E-9  UB     = 1E-21
+UC     = -9.26638E-11 VSAT   = 2E5          A0     = 0.951197
+AGS    = 0.20963      B0     = 1.345599E-6  B1     = 5E-6
+KETA   = 0.0114727    A1     = 3.851541E-4  A2     = 0.614676
+RDSW   = 1.496983E3   PRWG   = -0.0440632   PRWB   = -0.2945454
+WR     = 1            WINT   = 7.879211E-9  LINT   = 2.894523E-8
+DWG    = -1.112097E-8
+DWB    = 9.815716E-9  VOFF   = -0.1204623   NFACTOR = 1.2259401
+CIT    = 0            CDSC   = 2.4E-4       CDSCD  = 0
+CDSCB  = 0            ETA0   = 0.3325261    ETAB   = -0.0623452
+DSUB   = 0.9206875    PCLM   = 0.833903     PDIBLC1 = 9.948506E-4
+PDIBLC2 = 0.0191187   PDIBLCB = -1E-3        DROUT  = 0.9938581
+PSCBE1 = 2.887413E10  PSCBE2 = 8.325891E-9  PVAG   = 0.8478443
+DELTA  = 0.01         RSH    = 3.6          MOBMOD = 1
+PRT    = 0            UTE    = -1.5         KT1    = -0.11
+KT1L   = 0            KT2    = 0.022        UA1    = 4.31E-9
+UB1    = -7.61E-18    UC1    = -5.6E-11     AT     = 3.3E4
+WL     = 0            WLN    = 1            WW     = 0
+WWN    = 1            WWL    = 0            LL     = 0
+LLN    = 1            LW     = 0            LWN    = 1
+LWL    = 0            CAPMOD = 2            XPART  = 0.4
+CGDO   = 2.68E-10     CGSO   = 2.68E-10     CGBO   = 1E-12
+CJ     = 1.864957E-3  PB     = 0.976468     MJ     = 0.4614408
+CJSW   = 3.118281E-10 PBSW   = 0.6870843    MJSW   = 0.3021929
+CF     = 0            PVTH0  = 6.397941E-3  PRDSW  = 30.410214
+PK2    = 2.100359E-3  WKETA  = 5.428923E-3  LKETA  = -0.0111599    )
*
.endl
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