%% TIME 3 RETURN FUNCTIONS - TOOOO EDIT!!!!

Predator=Pred;

Distress=Dist;

**Values0**=[Xmarket\_total;N];

Values0=cat(4,Values0,Values0);

**Values1**=[Predator;Distress;NMLDflt;MLDflt;NMbell;Mbell;NMsell;Msell;]; %setup values

Values1=cat(4,Values1,Values1);

**Values2**=[NMMeanDiff\_CCP;NMMeanDiff\_tot;MMeanDiff\_CCP;MMeanDiff\_tot]; %bps diff

Values2=cat(4,Values2,Values2);

**Values3**=[LiquidMeanDifference;LiquidMeanDifference\_bps;BuybackMeanDifference;BuybackMeanDifference\_bps]; %2x6 matrix

Values3=cat(4,Values3(:,1),Values3(:,2)); %turn into 4D

**Values4a**=[NMLSurplus;MLSurplus;NMBSurplus;MBSurplus]; %Both have dim-4

**Values4b**=[NMIntCCPSurplus;MInterCCPSurplus;NMBIntCCPSurplus;MBInterCCPSurplus];

Values4b=cat(4,Values4b,Values4b);

**Values4c**=[NMtoMSurplus;NMtoMBSurplus;NMtoMBuyBackDiff\_total];

Values4c=cat(4,Values4c,Values4c);

**Values4d**=[NMCCPMargin;MCCPMargin;NMtoMCCPMargin;NMRatioCPlusMargin;MRatioCPlusMargin;NMtoMCPlusMargin;MtoNMCPlusMargin];

Values4d=cat(4,Values4d,Values4d);

**Values4e**=[NMBCCPMargin;MBCCPMargin;NMtoMBCCPMargin;NMBSurplusMargin;MBSurplusMargin;NMtoMBSurplusMargin;MtoNMBSurplusMargin];

Values4e=cat(4,Values4e,Values4e);

**ValuesL1**=[NMLPCCPLoss;MLPCCPLoss;NMpell;Mpell;NMLTPC\_0;MLTPC\_0;NMLTPC\_i;MLTPC\_i;NMLEPG\_tot;MLEPG\_tot];

**ValuesL2**=[NMLPLiquidationLoss;MLPLiquidationLoss;NMLPLiquidationGain;MLPLiquidationGain;NMLEPG\_tot;MLEPG\_tot];

**ValuesB1**=[NMBPCCPLoss;MBPCCPLoss;NMBBuybackProfitsVF;MBBuybackProfitsVF;NMBBuybackProfitsV0;MBBuybackProfitsV0];

**ValuesB2**=[NMBTPC\_0;MBTPC\_0;NMBTPC\_i;MBTPC\_i;NMBEPG\_tot;MBEPG\_tot;NMBEPD\_tot;MBEPD\_tot];

**ValuesB3**=[NMBPLiquidationLoss;MBPLiquidationLoss;NMBPLiquidationGain;NMBPLiquidationGain];

**ValuesB4**=[NMtoMCPlusLoss];

ValuesB4=cat(4,ValuesB4,ValuesB4);

**ValuesR1**=[NMRTPC\_0;MRTPC\_0;NMRTPC\_i;MRTPC\_i;NMAvgRTPC; MAvgRTPC;NMREPG\_tot;MREPG\_tot;NMREPD\_tot;MREPD\_tot];

**ValuesR2**=[NMRNewTPC\_i;MRNewTPC\_i;NMAvgRNewTPC\_i;MAvgRNewTPC\_i];

**ValuesR3**=[NMPredPProfitLoss;MPredPProfitLoss];

ValuesR3=cat(4,ValuesR3,ValuesR3);

**Values**=[Values0;Values1;Values2;Values3;Values4a;Values4b;Values4c;Values4d;Values4e;ValuesL1;ValuesL2;ValuesB1;ValuesB2;ValuesB3;ValuesB4;ValuesR1;ValuesR2;ValuesR3];

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