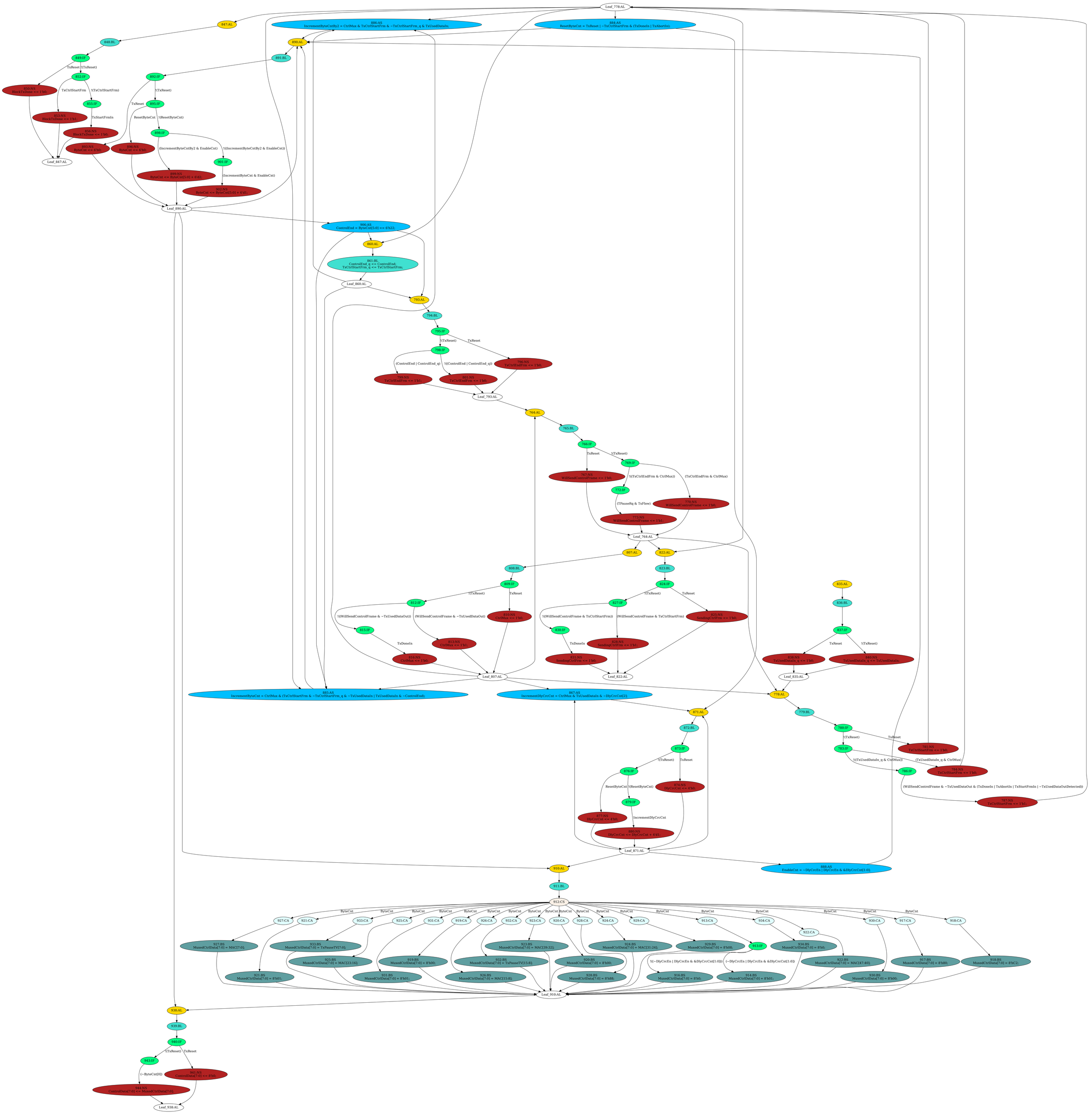
Leaf_778:AL
847:AL
886:AS
IncrementByteCntBy2 = CtrlMux & TxCtrlStartFrm & ~TxCtrlStartFrm_q & TxUsedDataIn;
884:AS
ResetByteCnt = TxReset | ~TxCtrlStartFrm & (TxDoneIn | TxAbortIn);
848:BL
890:AL
849:IF
TxReset
!(TxReset)
891:BL
852:IF
892:IF
850:NS
BlockTxDone <= 1'b0;
TxCtrlStartFrm
!(TxCtrlStartFrm)
!(TxReset)
855:IF
895:IF
TxReset
851:NS
BlockTxDone <= 1'b1;
TxStartFrmIn
ResetByteCnt
!(ResetByteCnt)
856:NS
BlockTxDone <= 1'b0;
898:IF
893:NS
ByteCnt <= 6'h0;
896:NS
ByteCnt <= 6'h0;
(IncrementByteCntBy2 & EnableCnt)
!((IncrementByteCntBy2 & EnableCnt))
Leaf_847:AL
901:IF
899:NS
ByteCnt <= ByteCnt[5:0] + 6'd2;
(IncrementByteCnt & EnableCnt)
902:NS
ByteCnt <= ByteCnt[5:0] + 6'd1;
Leaf_890:AL
906:AS
ControlEnd = ByteCnt[5:0] == 6'h22;
860:AL
861:BL
ControlEnd_q <= ControlEnd;
TxCtrlStartFrm_q <= TxCtrlStartFrm;
Leaf_860:AL
793:AL
794:BL
795:IF
!(TxReset)
TxReset
798:IF
796:NS
TxCtrlEndFrm <= 1'b0;
(ControlEnd | ControlEnd_q)
!((ControlEnd | ControlEnd_q))
799:NS
TxCtrlEndFrm <= 1'b1;
801:NS
TxCtrlEndFrm <= 1'b0;
Leaf_793:AL
764:AL
765:BL
766:IF
TxReset
!(TxReset)
769:IF
767:NS
WillSendControlFrame <= 1'b0;
!((TxCtrlEndFrm & CtrlMux))
(TxCtrlEndFrm & CtrlMux)
772:IF
770:NS
WillSendControlFrame <= 1'b0;
(TPauseRq & TxFlow)
773:NS
WillSendControlFrame <= 1'b1;
Leaf_764:AL
807:AL
822:AL
808:BL
823:BL
809:IF
824:IF
!(TxReset)
TxReset
812:IF
827:IF
!((WillSendControlFrame & ~TxUsedDataOut))
(WillSendControlFrame & ~TxUsedDataOut)
810:NS
CtrlMux <= 1'b0;
!((WillSendControlFrame & TxCtrlStartFrm))
(WillSendControlFrame & TxCtrlStartFrm)
825:NS
SendingCtlFrm <= 1'b0;
815:IF
830:IF
TxDoneIn
813:NS
CtrlMux <= 1'b1;
TxDoneIn
828:NS
SendingCtlFrm <= 1'b1;
816:NS
CtrlMux <= 1'b0;
831:NS
SendingCtlFrm <= 1'b0;
Leaf_807:AL
Leaf_822:AL
835:AL
836:BL
837:IF
TxReset
!(TxReset)
838:NS
TxUsedDataIn_q <= 1'b0;
840:NS
TxUsedDataIn_q <= TxUsedDataIn;
Leaf_835:AL
885:AS
IncrementByteCnt = CtrlMux & (TxCtrlStartFrm & ~TxCtrlStartFrm_q & ~TxUsedDataIn | TxUsedDataIn & ~ControlEnd);
867:AS
IncrementDlyCrcCnt = CtrlMux & TxUsedDataIn & ~DlyCrcCnt[2];
778:AL
871:AL
779:BL
780:IF
!(TxReset)
TxReset
781:NS
TxCtrlStartFrm <= 1'b0;
783:IF
!((TxUsedDataIn_q & CtrlMux))
(TxUsedDataIn_q & CtrlMux)
784:NS
TxCtrlStartFrm <= 1'b0;
786:IF
(WillSendControlFrame & ~TxUsedDataOut & (TxDoneIn | TxAbortIn | TxStartFrmIn | ~TxUsedDataOutDetected))
787:NS
TxCtrlStartFrm <= 1'b1;
872:BL
873:IF
!(TxReset)
TxReset
876:IF
ResetByteCnt
!(ResetByteCnt)
874:NS
DlyCrcCnt <= 4'h0;
879:IF
877:NS
DlyCrcCnt <= 4'h0;
IncrementDlyCrcCnt
880:NS
DlyCrcCnt <= DlyCrcCnt + 4'd1;
Leaf_871:AL
888:AS
EnableCnt = ~DlyCrcEn | DlyCrcEn & &DlyCrcCnt[1:0];
910:AL
911:BL
912:CS
ByteCnt
927:CA
921:CA
933:CA
925:CA
931:CA
919:CA
926:CA
932:CA
923:CA
920:CA
928:CA
924:CA
929:CA
913:CA
934:CA
922:CA
930:CA
917:CA
918:CA
927:BS
MuxedCtrlData[7:0] = MAC[7:0];
933:BS
MuxedCtrlData[7:0] = TxPauseTV[7:0];
923:BS
MuxedCtrlData[7:0] = MAC[39:32];
924:BS
MuxedCtrlData[7:0] = MAC[31:24];
929:BS
MuxedCtrlData[7:0] = 8'h08;
913:IF
934:BS
MuxedCtrlData[7:0] = 8'h0;
921:BS
MuxedCtrlData[7:0] = 8'h01;
925:BS
MuxedCtrlData[7:0] = MAC[23:16];
919:BS
MuxedCtrlData[7:0] = 8'h00;
932:BS
MuxedCtrlData[7:0] = TxPauseTV[15:8];
920:BS
MuxedCtrlData[7:0] = 8'h00;
!((~DlyCrcEn | DlyCrcEn & &DlyCrcCnt[1:0]))
(~DlyCrcEn | DlyCrcEn & &DlyCrcCnt[1:0])
922:BS
MuxedCtrlData[7:0] = MAC[47:40];
917:BS
MuxedCtrlData[7:0] = 8'h80;
918:BS
MuxedCtrlData[7:0] = 8'hC2;
931:BS
MuxedCtrlData[7:0] = 8'h01;
926:BS
MuxedCtrlData[7:0] = MAC[15:8];
928:BS
MuxedCtrlData[7:0] = 8'h88;
916:BS
MuxedCtrlData[7:0] = 8'h0;
914:BS
MuxedCtrlData[7:0] = 8'h01;
930:BS
MuxedCtrlData[7:0] = 8'h00;
Leaf_910:AL
938:AL
939:BL
940:IF
!(TxReset)
TxReset
943:IF
941:NS
ControlData[7:0] <= 8'h0;
(~ByteCnt[0])
944:NS
ControlData[7:0] <= MuxedCtrlData[7:0];
Leaf_938:AL