



1.)

T_C ({C1, C2}, {C1})

T_A ({A1, A2, C11, Q1}, {A1})

P_W ({A1, C1, W1}, {A1+C1})

P_W[A1] \subseteq T_A[A1], T_A[A1] \subseteq P_W[A1], P_W[C1] \subseteq T_C[C1]

T_A[C11] \subseteq T_C[C1], dom(C11) \subseteq dom(C1), Null(T_A, C11) = \perp

T_B({B1, B2}, {B1})

P_X({A1, B1, X1}, {A1 + B1})

P_X[A1] \subseteq T_A[A1], P_X[B1] \subseteq T_B[B1], T_B[B1] \subseteq P_X[B1]

T_D({D1, D2, B1, Z1}, {D1})

T_D[B1] \subseteq T_B[B1], Null(T_D, B1) = \perp

P_D({D1, D11, D}, {D1 + D11})

P_D[D1] \subseteq T_D[D1], P_D[D11] \subseteq T_D[D1], dom(D11) \subseteq dom(D1)

P_Y({D1, A1, B1, Y1}, {D1 + A1 + B1})

P_Y[D1] \subseteq T_D[D1], P_Y[A1 + B1] \subseteq P_X[A1 + B1]

T_B1({B1, B11, B12}, {B1 + B11})

T_B2({B1, B21, B22}, {B1 + B21})

T_B1[B1] \subseteq T_B[B1]

T_B2[B1] \subseteq T_B[B1]

T_B[B1] \subseteq T_B1[B1] \cup T_B2[B1]

2.)

T_A({A1, A2}, {A1})

T_C({C1, C2, A1}, {A1+C1})

T_C[A1] \subseteq T_A[A1]

T_F({F1, F2}, {F1})

T_B({B1, B2, F11, W1}, {B1})

P_V({B1, F1, V1}, {B1 + F1})

T_B[F11] \subseteq T_F[F1], dom(F11) \subseteq dom(F1), Null(T_B, F11) = T

P_V[F1] \subseteq T_F[F1], P_V[B1] \subseteq T_B[B1]

P_X({A1, B1, X1}, {A1 + B1})

P_X[A1] \subseteq T_A[A1], P_X[B1] \subseteq T_B[B1], T_B[B1] \subseteq P_X[B1]

T_D({D1, D2, B1, Z1}, {D1})

P_Y({D1, A1, B1, Y1}, {A1 + B1 + D1})

T_D[B1] \subseteq T_B[B1], Null(T_D, B1) = \perp

P_Y[D1] \subseteq T_D[D1], P_Y[A1 + B1] \subseteq P_X[A1 + B1]

T_E({E1, E2, E11, S1}, {E1})

T_E[E11] \subseteq T_E[E1], dom(E11) \subseteq dom(E1), Null(T_E, E11) = T

T_D1({D11, D12, D1}, {D1 + D11})

T_D2({D21, D22, D1, E1}, {D1 + D21})

T_D1[D1] \subseteq T_D[D1], T_D2[D1] \subseteq T_D[D1], T_D[D1] \subseteq T_D1[D1] \cup T_D2[D1]

T_D2[E1] \subseteq T_E[E1], Null(T_D2, E1) = \perp