

predicate logic:

$$\begin{aligned} \exists v_0 \exists v_1 \exists v_2 \exists v_3 \exists v_4 & (\mathbf{b}(v_0) \wedge s(v_0) \wedge F(v_0, v_1) \\ & \wedge G(v_0, v_2) \wedge t(v_2) \wedge r(v_1, v_2) \\ & \wedge H(v_2, v_3) \wedge s(v_3) \wedge t(v_3) \wedge r(v_1, v_3) \\ & \wedge \mathbf{c}(v_4) \wedge H(v_4, v_3)) \end{aligned}$$

attribute-value logic:

$$\begin{aligned} \mathbf{b} : (s \wedge G : (t \wedge H : (s \wedge t)) \wedge [F, G] : r \wedge [F, G \cdot H] : r) \\ \wedge \mathbf{b} \cdot G \cdot H \triangleq \mathbf{c} \cdot H \end{aligned}$$

attribute-value matrix:

$$\begin{aligned} & \mathbf{b} \begin{bmatrix} s \\ F \quad [1] \\ G \quad [2] \quad \left[\begin{array}{c} t \\ H \quad [3] \quad s \wedge t \end{array} \right] \end{bmatrix} \\ & r([1], [2]) \\ & r([1], [3]) \\ & \mathbf{c} \begin{bmatrix} H \quad [3] \end{bmatrix} \end{aligned}$$