

Factors influencing Forward and Backward chaining

- Is the goal precisely known?
- Fan-in and Fan-out of rules.

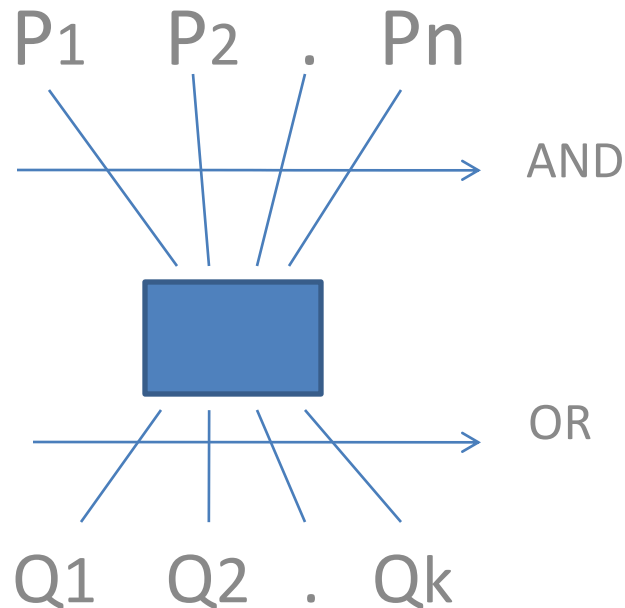
Rule Structure

$R_1 : P_1 \wedge P_2 \wedge P_3 \wedge \dots \wedge P_n \longrightarrow Q_1$

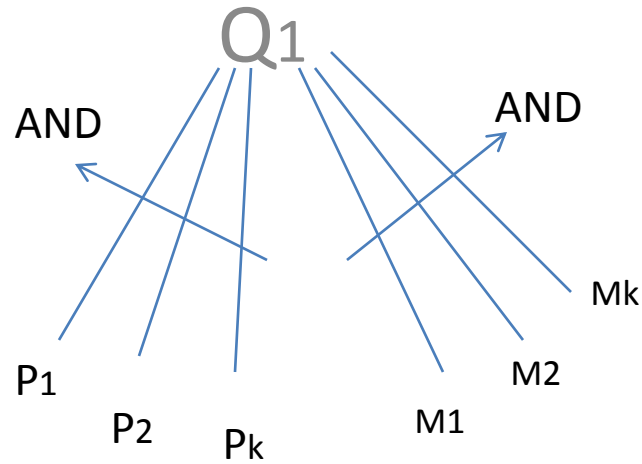
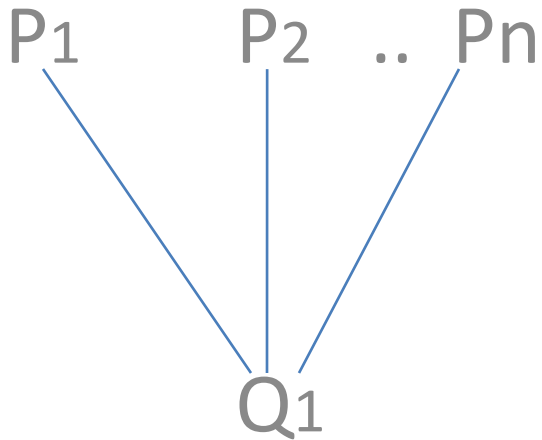
$R_2 : P_1 \wedge P_2 \wedge P_3 \wedge \dots \wedge P_n \longrightarrow Q_2$

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$R_k : P_1 \wedge P_2 \wedge P_3 \wedge \dots \wedge P_n \longrightarrow Q_k$

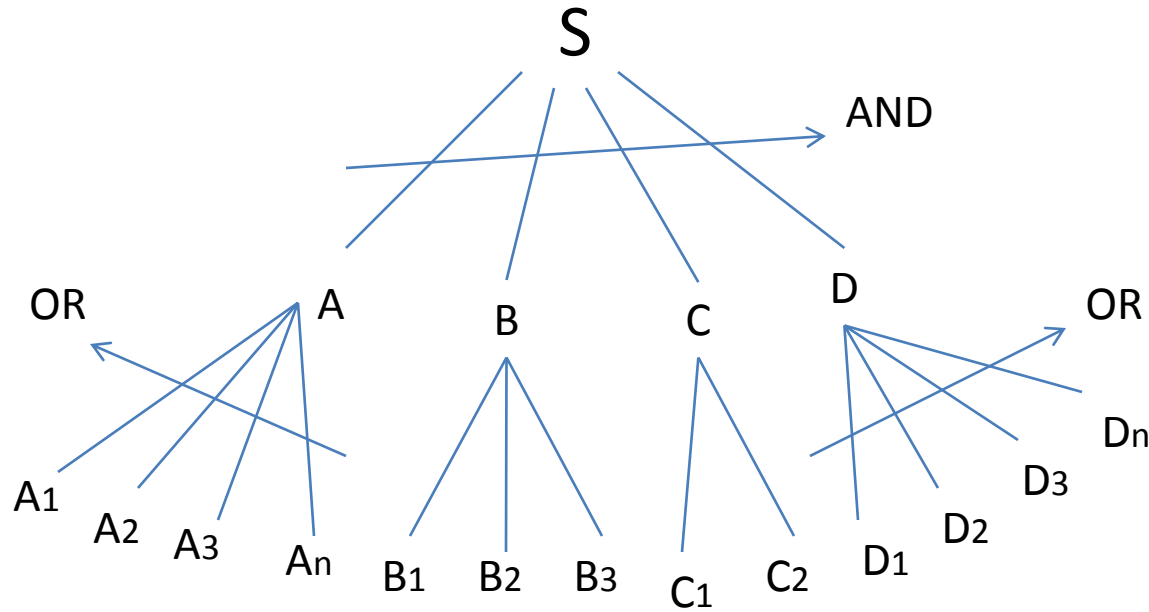


Forward chaining



- If Fan-out is less Forward chaining is preferable ?

Important Data structure: AND-OR Graph



- Structure of AND-OR Graph decides the direction of inferencing.