

GCMPSC 266 - Formal Specification and Verification

More Axiomatic Definitions of Pascal

procedure p(V; var X);S, P{p(V,X)}R |- P{S}R
D5: -----
P{p(V,X)}R

P{p(V,X)}R
D6: -----
K, X, V K, X, V
P {p(E,A)}R
K', A, E K', A, E

P{p(E,A)}R
D7: -----
(P&∀A(R→Q)) {p(E,A)}Q

Note: "&" is logical AND, and X, Y, A, E, K, and K' represent a vector of values.