

State Type: *atis* **Converging Behavior**

(*State type* is part of the metatheory and describes configurations and properties that characterize a particular state.)

Converging behavior, $e\mathcal{B}(\mathfrak{S})$, =_{df} a time-interval sequence of system behaviors with an increasing similarity of system states.

$$e\mathcal{B}(\mathfrak{S}) =_{df} \mathcal{B}(\mathfrak{S})_{t(1)}, \mathcal{B}(\mathfrak{S})_{t(2)}, \dots, \mathcal{B}(\mathfrak{S})_{t(n)} \mid \mathcal{A}(\mathcal{B}(\mathfrak{S})_{t(j)}) > \mathcal{A}(\mathcal{B}(\mathfrak{S})_{t(j+1)})$$

Converging behavior is defined as a sequence of system behaviors; such that, the APT&C score at time t_j is *approaching similarity to* the APT&C score at time t_{j+1} .