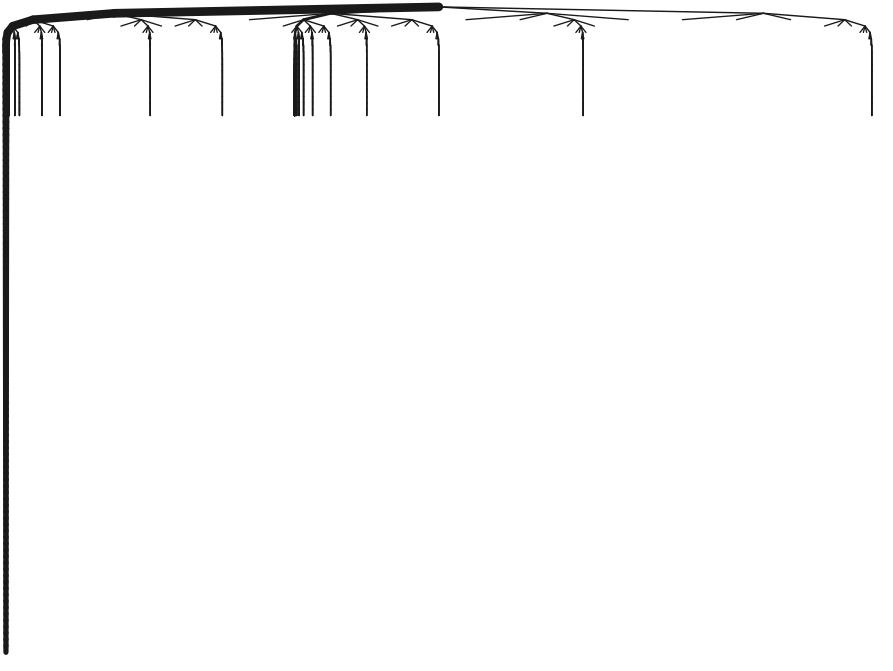state_aware