```
clc
clear all
sympref('FloatingPointOutput',true);
u = symunit;
tf_separate_int
```

Entrada

```
% Enunciado Motor A
eq = subs(eq, P_t9 / P_9, 3.5);
eq = subs(eq, P_t19 / P_19, 2.5);
T_t4 = 1600; % K
pi_c = 20;
pi_f = 1.5;
alpha = 5;

% General
g_c = 1;
pi_fn = 0.99;
M_0 = 0.8;
gamma_c = 1.4;
gamma_t = 1.33;
c_pc = 1005; % J/kg-K
c_pt = 1250; % J/kg-K
h_PR = 41400000; % J/kg
T_0 = 288.15; % K

% Figuras de merito
pi_dmax = 0.98;
e_c = 0.88;
pi_b = 0.94;
eta_b = 0.99;
e_t = 0.89;
pi_n = 0.98;
eta_m = 0.95;
e_f = 0.86;
```

Evaluar

```
debug = 1;
tf_separate_eval;
```

$R_c = 287.1429$
$R_t = 310.1504$
$a_0 = 340.3473$
$V_0 = 272.2778$
$\tau_r = 1.1280$
$\pi_r = 1.5243$

$\eta_r = 1$

$\pi_d = 0.9800$

$\tau_\lambda = 6.9063$

$\tau_c = 2.6449$

$\eta_c = 0.8229$

$\tau_f = 1.1442$

$\eta_f = 0.8518$

$f = 0.0291$

$\tau_t = 0.6047$

$\pi_t = 0.1025$

$\eta_t = 0.9156$

$\frac{P_0}{P_9} = 1.2407$

$M_9 = 1.4864$

$T_9 = 709.0319$

$V_9 = 803.8602$

$\frac{P_0}{P_{19}} = 1.1270$

$M_{19} = 1.2232$

$T_{19} = 286.2414$

$V_{19} = 414.9318$

$\frac{F}{\dot{m}_0} = 179.1195$

$S = 2.7077\text{e-}05$

FR = 4.1465

$\eta_P = 0.6389$

$\eta_T = 0.4487$

$\eta_O = 0.2867$