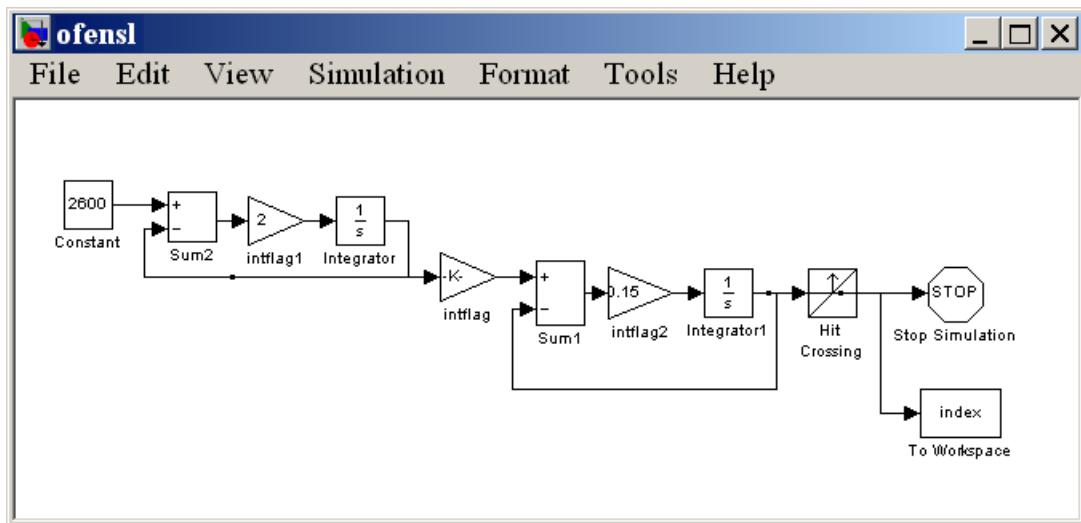



```

function [dx,eventflg,direction]=ofenode(t,x,flag)

if nargin<3 | isempty(flag)
    dx=zeros(11,1);
    dx(11)=2*(2600-x(11));
    dx(1:10)=.15*(x(11)-x(1:10));
else
    switch(flag)
    case 'events'
        dx(1:10)=x(1:10)-2200;      % reaching the final temperature
        eventflg=ones(1,10);        % stop on each event
        direction=ones(1,10);       % Xing in + direction
    otherwise
        error(['unknown flag '' ' flag ' ''']);
    end
end

```



MODEL EXECUTION & SIMULATION RESULTS

```

>> prepare('ofen2.gpss'), schedule(1,0), printstat
...
T = 49.01
Calling continuous model file ofenode.m.
T = 49.46
Calling continuous model file ofenode.m.
T = 49.53
Calling continuous model file ofenode.m.
T = 50.00
Simulation beendet

```

```

-----
QUEUE-STATISTIK, T = 50.00
Nr. max. mittl. Eintritte zeitlose mittl. Verweilzeit aktuelle Name
Laenge Laenge insges. Eintritte Verweilzeit WZ~=0 Laenge ####
1     8      1.89      39      10      2.43      3.26      7
waitreg
-----
```

```

FACILITY-STATISTIK, T = 50.00
Nr. belegende mittl. Anzahl mittl. Name
Transakt. Auslastung Eintritte Verweilzeit ####
1          3      0.80      4      10.00
2          4      0.77      4      9.67

```

3	9	0.75	3	12.55
4	10	0.72	3	12.00
5	17	0.69	3	11.51
6	11	0.68	3	11.31
7	12	0.66	3	10.95
8	13	0.64	3	10.67
9	14	0.63	3	10.51
10	1	0.59	3	9.87

STORAGE-STATISTIK, T = 50.00

Nr. Kapaz.	mittl.	Eintritte	Auslastung	mittl.	aktueller	max.
Name	Inhalt	insges.		Verweilzeit	Inhalt	Inhalt

####	1	10	6.94	32	0.69	10.84	10	10
ofen								

keine USER-CHAIN betreten

BLOCK-STATISTIK, T = 50.00

```

39 generate(1.1,1,10,0,0)
39 queue(waitreg,1)
32 enter(ofen,1)
32 queueulen=[queueulen; Q(waitreg)]; content=[content;ingotnum];
32 time=[time; T];
32 selectmin(F(1:10),1)
32 seize(P(1))
32 depart(waitreg,1)
32 queueulen=[queueulen; Q(waitreg)]; content=[content;ingotnum];
32 time=[time; T];
32 ingotnum=ingotnum+1;
32 x(P(1))=rand*200+300;
32 c_operate(P(1))
32 x(11)=x(11)-(x(11)-x(P(1)))/ingotnum;
32 logic_r(P(1))
32 queueulen=[queueulen; Q(waitreg)]; content=[content;ingotnum];
32 time=[time; T];
22 gate_ls(P(1),0)
22 c_hold(P(1))
22 x(P(1))=0;
22 ingotnum=ingotnum-1;
22 release(P(1))
22 leave(ofen,1)
22 queueulen=[queueulen; Q(waitreg)]; content=[content;ingotnum];
22 time=[time; T];
22 terminate(0)
22 detect(1:10,0,1)
22 logic_s(P(1))
22 terminate(0)
1 generate(50,0,50,0,0)
1 close all; plot(tvec,xmat); title('temperatures');
1 figure; stairs(time,content); hold on;
1 stairs(time,queueulen); title('content, queue length');
1 hold off
1 terminate(1)

```

