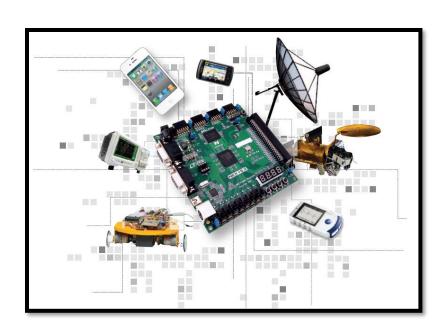
18-2-2024

Tarea 2

Sistemas embebidos



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Procedimiento

Método	de Euler	18 02 24 Scribe
transfe	la Siguiente rencia ante unitario	Función de una entrada tipo
y(s) V(s)	= 0-425 5+8	6=0.125 a=8
Y(s) V(s)	5 ta	
4	ultiplicación (S) (Sta) = U(5)6
Realiz	sat multiplica 5 Y(s) + a Y(ción elem. x elem.
oylt.	2 + ay(t)= b	v (t)
y (i+	1) - y(i) + a	y(i) = v(i)6
		o de ma yor orden
9(14)	= y(i) + h[-ay	(N) + 60 (W)

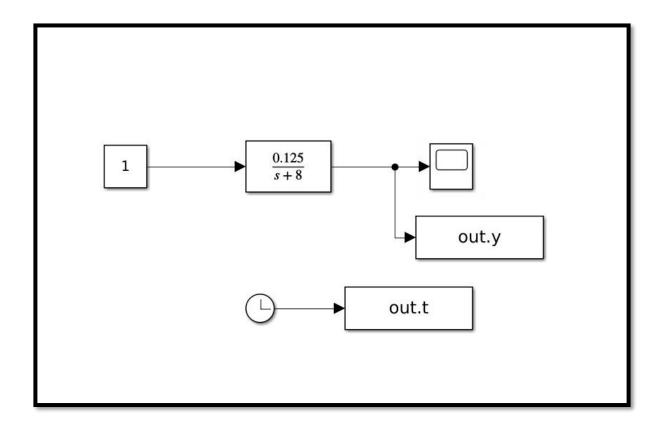
Código en C

```
main() {
 double tfin = 10;
int n = tfin / h;
 double b = 0.125, a = 8;
 printf( format: "t \t\t y(t)\n\n");
    t[i] = i * h;
    υ[i] = 1;
    y[i + 1] = y[i] + h * (-a * y[i] + b * u[i]);
    printf( format: "%f \t\t %f \n", t[i], y[i]);
```

Resultados en C

9.820000	0.015625
9.830000	0.015625
9.840000	0.015625
9.850000	0.015625
9.860000	0.015625
9.870000	0.015625
9.880000	0.015625
9.890000	0.015625
9.900000	0.015625
9.910000	0.015625
9.920000	0.015625
9.930000	0.015625
9.940000	0.015625
9.950000	0.015625
9.960000	0.015625
9.970000	0.015625
9.980000	0.015625
9.990000	0.015625
Process finished	with exit code 0

Diagrama a bloques simulink



Gráfica en simulink

