

Application

Application Code  
(owns mesh, physics, etc.)

$\tilde{\mathbf{y}}, t$   
[ $\mathbf{B}$ ]

$f[, J_f \mathbf{B}]$

$\tilde{\mathbf{y}}_{n,n-1,\dots}$   
 $t, \mathbf{B}$

$R, J_R \mathbf{B}$

Contin.-time  
Adapter

Discrete-time  
Adapter

int main()

$\tilde{\mathbf{y}}, t$   
[ $\mathbf{B}$ ]

$f[, J_f \mathbf{B}]$

$\tilde{\mathbf{y}}_{n,n-1,\dots}$   
 $t, \mathbf{B}$

$R, J_R \mathbf{B}$