

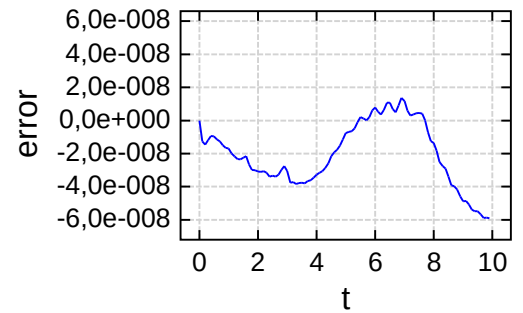
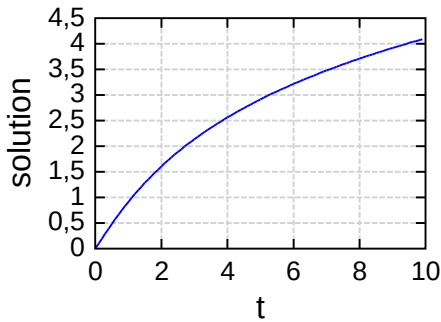
$$D(t, x) := \text{stack}\left((t+1) \cdot e^{-x} \begin{pmatrix} 1 \\ 1 \end{pmatrix}\right) \quad \text{AbsTol} := 10^{-8} \quad \text{RelTol} := 10^{-8}$$

$$t_0 := \text{time}(0) \quad x_0 := \text{stack}(0) \quad t_{\min} := 0 \quad t_{\max} := 10 \quad N := 100$$

$$\text{res} := \text{dn\_AdamsMoulton}(\text{stack}(0), t_{\min}, t_{\max}, N-1, D)$$

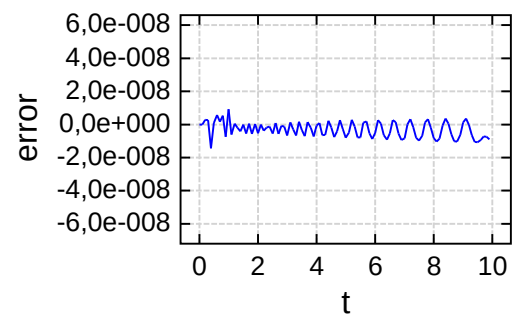
$$\text{time}(0) - t_0 = 11.9995 \text{ MC}$$

$$p1 := \text{res}_{[1..N]} \begin{pmatrix} 1 \\ 2 \end{pmatrix} \quad t := \text{res}_{[1..N]} 1 \quad y := \ln(0.5 \cdot t^2 + t + 1) \quad \text{err} := \text{res}_{[1..N]} 2^{-y}$$



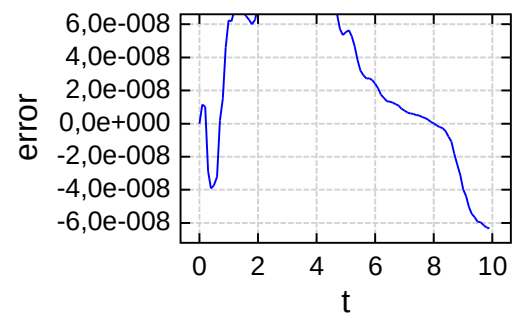
$$\text{res} := \text{dn\_ExplicitRK45}(\text{stack}(0), t_{\min}, t_{\max}, N-1, D)$$

$$y := \ln(0.5 \cdot t^2 + t + 1) \quad \text{err} := \text{res}_{[1..N]} 2^{-y}$$



$$\text{res} := \text{dn\_GearsBDF}(\text{stack}(0), t_{\min}, t_{\max}, N-1, D)$$

$$y := \ln(0.5 \cdot t^2 + t + 1) \quad \text{err} := \text{res}_{[1..N]} 2^{-y}$$



$$\text{res} := \text{dn\_ImplicitRK5}(\text{stack}(0), t_{\min}, t_{\max}, N-1, D)$$

$$y := \ln(0.5 \cdot t^2 + t + 1) \quad \text{err} := \text{res}_{[1..N]} 2^{-y}$$

