$$\frac{v^{n+1} - v^n}{\Delta t} = \frac{1}{m} \left(F(t_n) - s(u^n) - f(v^n) \right), \tag{4.88}$$

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$$\frac{u^{n+1} - u^n}{\Delta t} = v^n, \qquad (4.89)$$

which is, as usual, reordered to the algorithmic form

$$v^{n+1} = v^n + \frac{\Delta t}{m} (F(t_n) - s(u^n) - f(v^n)), \qquad (4.90)$$

$$u^{n+1} = u^n + \Delta t v^n. \qquad (4.91)$$

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