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> restart;
> with(PDEtools) :
> declare(F(x, y, t, u(x, y, t), v(x, y, t)), G(x, y, t, u(x, y, t), v(x, y, t)))
      F(x, y, t, u(x, y, t), v(x, y, t)) will now be displayed as F
      u(x, y, t) will now be displayed as u
      v(x, y, t) will now be displayed as v
      G(x, y, t, u, v) will now be displayed as G

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(1)

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> sys := [diff(F(x, y, t, u, v), v, v) = 0, diff(F(x, y, t, u, v), u, u) = 0, diff(G(x, y, t, u, v), v, v)
= 0, diff(F(x, y, t, u, v), u, v) = 0, diff(G(x, y, t, u, v), u, v) = 0, diff(G(x, y, t, u, v), u, u)
= 0, diff(F(x, y, t, u, v), x, v) = 0, diff(G(x, y, t, u, v), x, v) = 0, diff(F(x, y, t, u, v), x, u)
= 0, diff(G(x, y, t, u, v), x, u) = 0, diff(F(x, y, t, u, v), v) + diff(G(x, y, t, u, v), u) = 0,
-diff(G(x, y, t, u, v), v) + diff(F(x, y, t, u, v), u) = 0, -diff(G(x, y, t, u, v), v) + diff(F(x,
y, t, u, v), u) = 0, -diff(F(x, y, t, u, v), v) - diff(G(x, y, t, u, v), u) = 0, -2(u^2*gamma + 3*v^2*gamma + alpha*delta)
.F + 2*u^3*gamma*diff(G(x, y, t, u, v), v) + 2*u*(2*v*gamma*G + v^2*gamma*diff(G(x, y, t, u, v), v) + alpha*delta
.diff(G(x, y, t, u, v), v)) - 2*u^2*v*gamma*diff(G(x, y, t, u, v), u) - 2*v^3*gamma*diff(G(x, y, t, u, v), u)
- 2*diff(G(x, y, t, u, v), t) + diff(F(x, y, t, u, v), x, x) = 0, 2*(v^2*gamma + alpha*delta).G + 2*u^3*gamma
.diff(F(x, y, t, u, v), v) + 2*u*(-2*v*gamma*F + v^2*gamma*diff(F(x, y, t, u, v), v) + alpha*delta*diff(F(x, y, t, u,
v), v)) - 2*v^3*gamma*diff(F(x, y, t, u, v), u) - 2*v*alpha*delta*diff(F(x, y, t, u, v), u) + u^2*(6*gamma*G - 2*v*gamma
.diff(F(x, y, t, u, v), u)) - 2*diff(F(x, y, t, u, v), t) - diff(G(x, y, t, u, v), x, x) = 0]

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sys := [F_v,v = 0, F_u,u = 0, G_v,v = 0, F_u,v = 0, G_u,v = 0, G_u,u = 0, F_v,x = 0, G_v,x = 0, F_u,x = 0, G_u,x
= 0, F_v + G_u = 0, -G_v + F_u = 0, -G_v + F_u = 0, -F_v - G_u = 0, -2(u^2*gamma + 3*v^2*gamma + alpha*delta) F
+ 2*u^3*gamma*G_v + 2*u(2*v*gamma*G + v^2*gamma*G_v + alpha*delta*G_v) - 2*u^2*v*gamma*G_u - 2*v^3*gamma*G_u - 2*G_t + F_x,x = 0,
2*(v^2*gamma + alpha*delta) G + 2*u^3*gamma*F_v + 2*u(-2*v*gamma*F + v^2*gamma*F_v + alpha*delta*F_v) - 2*v^3*gamma*F_u - 2*v*alpha*delta*F_u
+ u^2(6*gamma*G - 2*v*gamma*F_u) - 2*F_t - G_x,x = 0]

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> sol := pdsolve(sys)
Error, (in pdsolve/sys/info) ambiguous input: the variables {F,
G} and the functions {F(x, y, t, u, v), G(x, y, t, u, v)} cannot
both appear in the system

```