n_nodes

April 24, 2023

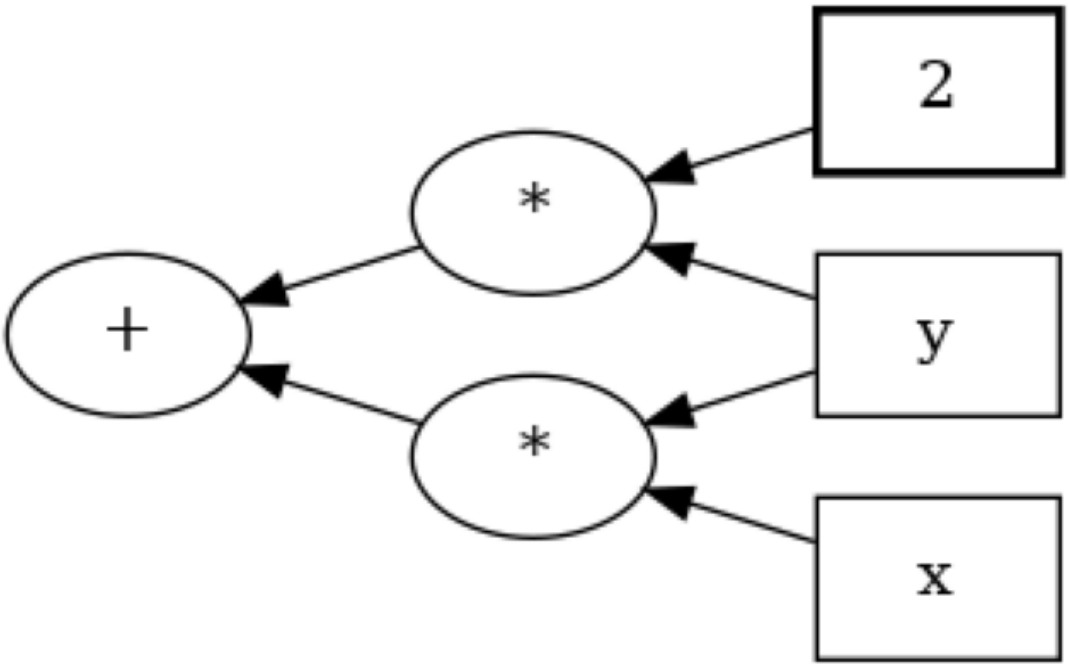
1 n_nodes

[1]:
```
from casadi import *
from casadi.tools import *
```

Let's build a trivial symbolic SX graph

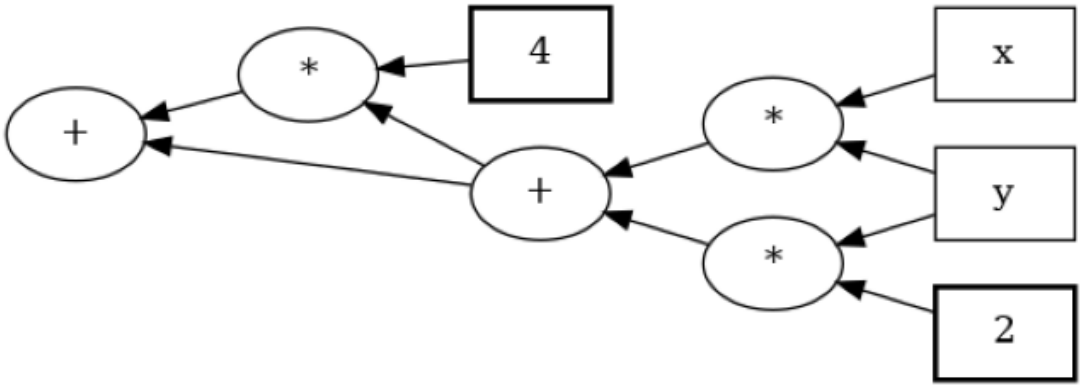
[2]:
```
x = SX.sym("x")
y = SX.sym("y")
z = x*y+2*y
print(n_nodes(z), " nodes in ", z)
dotdraw(z)
```

```
6  nodes in  ((x*y)+(2*y))
```



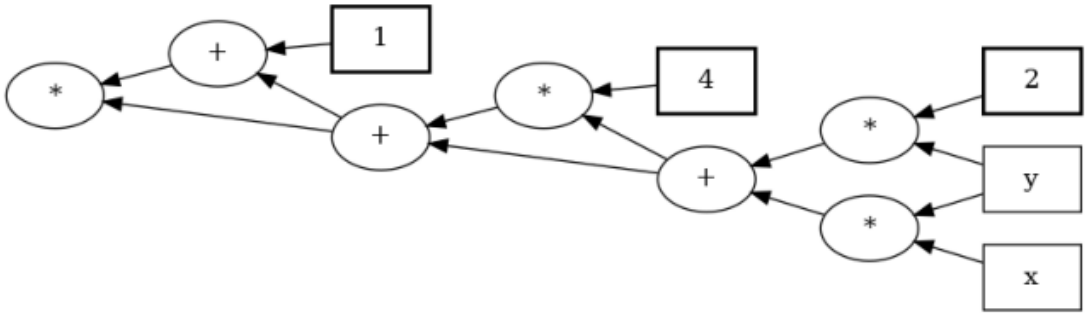
[3]:
```
z += 4*z
print(n_nodes(z), " nodes in ", z)
dotdraw(z)
```

```
9  nodes in  @1=((x*y)+(2*y)), (@1+(4*@1))
```



[4]:
```
z *= z+1
print(n_nodes(z), " nodes in ", z)
dotdraw(z)
```

```
12  nodes in  @1=((x*y)+(2*y)), @2=(@1+(4*@1)), (@2*(@2+1))
```



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