with(codegen, cost):
First note how cost counts:
> C := x + y;
> codegen[cost](C);
additions
> C1 := x + y + z;
> codegen[cost](C1); 2 additions
> interface(labelling=false):
> qload(twodg1);
Default spacetime = twodg1
sig has not been calculated.
For the twodg1 spacetime:
Coordinates :
x^a = [x1, x2]
Line element :
\[ ds^2 = a(x1, x2) \, dx1^2 + b(x1, x2) \, dx1 \, dx2 + c(x1, x2) \, dx2^2 \]
> grOptionDefaultSimp:=0:
> grdef(`RR11:=g{^c ^d}*R{c \, x1 \, x1 \, d}`):
Created definition for RR11
> grdef(`RR12:=g{^c \, ^d}*R{c \, x1 \, x2 \, d}`):
Created definition for RR12
> grcalc(RR11):
CPU Time = 0.003
> codegen[cost](numer(grcomponent(RR11, []))); 45 multiplications + 79 functions + 16 additions
16 additions = 17 terms
> grcalc(RR12):
CPU Time = 0.001
> codegen[cost](numer(grcomponent(RR12, []))); 44 multiplications + 79 functions + 17 additions
16 additions=17 terms