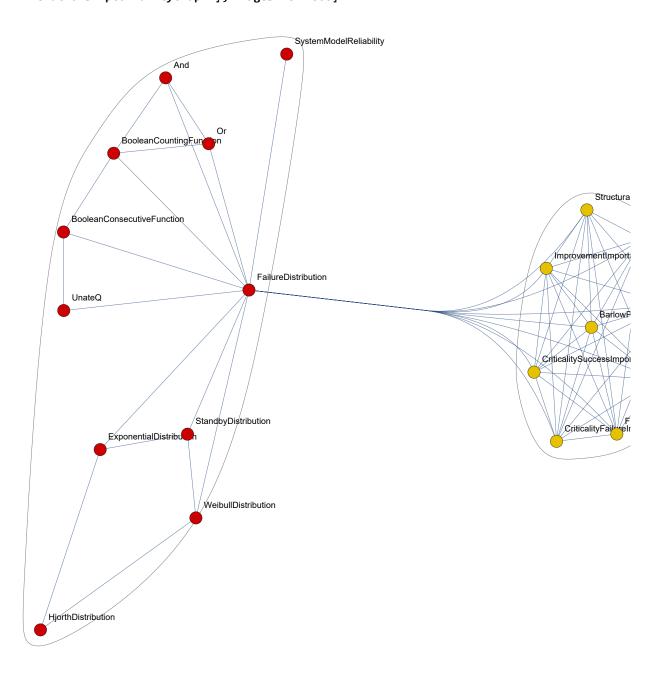
Learning Reliability

Based on default notebooks.

Out[0]=



```
In[x] := R = ReliabilityDistribution[x \land y, {\{x, ExponentialDistribution[Subscript[1, 1]]\}},
             {y, ExponentialDistribution[Subscript[1, 2]]}}]
Out[0]=
         ReliabilityDistribution[x1&&x2,
          \{\{x1, \, \text{ExponentialDistribution}\, [\, l_1\,]\,\}\,,\, \{x2, \, \text{ExponentialDistribution}\, [\, l_2\,]\,\}\,\}\,]
 In[ ]:= Mean[R]
Out[0]=
 In[@]:= R = ReliabilityDistribution[x v y, {{x, ExponentialDistribution[Subscript[1, 1]]},
              {y, ExponentialDistribution[Subscript[1, 2]]}}];
 In[*]:= Mean[R]
Out[0]=
 ln[*]:= R = ReliabilityDistribution[X \land (y \lor z), {{x, ExponentialDistribution[3]},
              {y, ExponentialDistribution[1]}, {z, ExponentialDistribution[2]}}];
        Time from 0 to 2
 In[a]:= Table[Plot[df[R, t], {t, 0, 2}, PlotLabel \rightarrow df, PlotRange \rightarrow All],
          {df, {SurvivalFunction, HazardFunction, PDF, CDF}}]
Out[@]=
                    SurvivalFunction
                                                         HazardFunction
          1.0
                                              4.0
          8.0
                                              3.8
         0.6
                                              3.6
                                              3.4
          0.2
                                              3.2
                   0.5
                                         2.0
                           1.0
                                                       0.5
                                                               1.0
                                                                      1.5
                                                                              2.0
                          PDF
                                                              CDF
          3.0
                                              1.0
          2.5
                                              8.0
          2.0
                                              0.6
          1.5
                                              0.4
          1.0
                                              0.2
          0.5
                                         2.0
                   0.5
                           1.0
                                                       0.5
                                                                      1.5
                                                                              2.0
 In[@]:= {Mean[R], Median[R]}
Out[0]=
         \left\{\frac{17}{60},\; \mathsf{Log}\!\left[\mathsf{Root}\!\left[2-2\!\;\sharp\!1-2\;\sharp\!1^2+\sharp\!1^6\;\&,\;2,\;0\right]\right]\right\}
 In[@]:= {Mean[R], Median[R]};
        N[%]
```