

# CRITVAR Model Transformation Engine

## Pseudocodes

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**Algorithm 2:** Pruning of model elements annotated with ElementVariationPoint comments

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```

1 Function pruneModelElements(model, configs):
2   prunedModel = model;
3   foreach config ∈ configs do
4     foreach elementVariationPoint ∈ prunedModel do
5       if checkExpr(config, elementVariationPoint.Features) then
6         | next();
7       else
8         | removeWithDeps(elementVariationPoint.annotatedElement);
9       end
10    end
11  end
12  write(prunedModel);
13  return;
14
```

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**Algorithm 3:** Pruning of model elements annotated with Property-VariationPoint comments and model element properties

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```

1 Function pruneModelProperties(model, configs):
2   prunedModel = model;
3   foreach config ∈ configs do
4     foreach propertyVariationPoint ∈ prunedModel do
5       prunedExpression = pruneExpression(config,
6         propertyVariationPoint.expression);
7       if profileName == then
8         propertyVariationPoint.annotatedElement.findProperty(
9           propertyVariationPoint.propertyName
10          ) = prunedExpression;
11       else
12         propertyVariationPoint.annotatedElement.findStereotype(
13           propertyVariationPoint.stereotypeName
14           ).findProperty(propertyVariationPoint.propertyName) =
15           prunedExpression;
16       end
17     end
18     foreach element ∈ prunedModel do
19       foreach property ∈ element do
20         if isEnrichedWithVariability(property.value) then
21           prunedExpression = pruneExpression(property.value);
22           property.value = prunedExpression;
23         else
24           next();
25         end
26       end
27     end
28   end
29   write(prunedModel);
30   return;

```

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