

```

print("Discovering...");

importlog = System.getenv("IMPORTLOG");
exportmodel = System.getenv("EXPORTMODEL");

//-----
print("<import file=\"" + importlog + "\">");

// Use the name of the plugin (in lowercase) to open a log
print("  <plugininfo>");
org.deckfour.xes.model.XLog log = open_xes_log_file(importlog);
print("  </plugininfo>");

logname = org.deckfour.xes.extension.std.XConceptExtension.instance().extractName(log);
print("  <name>" + logname + "</name>");
print("  <traces>" + log.size() + "</traces>");
events = 0;
for (trace : log) {
    events += trace.size();
}
print("  <events>" + events + "</events>");
print("  <classifiers>" + log.getClassifiers().size() + "</classifiers>");
print("</import>");

//-----
print("<discover miner=\""HybridILPMiner\"">");

clss = (log.getClassifiers().isEmpty() ? new XEventAndClassifier(new XEventNameClassifier(), new
XEventLifeTransClassifier()) : log.getClassifiers().get(0));

print("  <plugininfo>");
res = ilp_based_process_discovery(log, clss);
print("  </plugininfo>");

model = res[0];
marking = res[1];

print("  <name>" + model.getLabel() + "</name>");
print("  <transitions size=\"" + model.getTransitions().size() + "\">");
for (transition : model.getTransitions()) {
    print("    <transition>" +
transition.getAttributeMap().get(org.processmining.models.graphbased.AttributeMap.LABEL) + "</transition>");
}
print("  </transitions>");
print("  <places size=\"" + model.getPlaces().size() + "\">");
for (place : model.getPlaces()) {
    print("    <place>" + place.getAttributeMap().get(org.processmining.models.graphbased.AttributeMap.LABEL) + "
</place>");
}
print("  </places>");
print("  <marking>" + marking + "</marking>");
print("</discover>");
//-----

```

```
print("<export file=\" + exportmodel + "\">");  
  
exportfile = new java.io.File(exportmodel);  
  
print(" <pluginfo>");  
pnml_export_petri_net_(model, exportfile);  
print(" </pluginfo>");  
  
print(" <bytes>" + exportfile.length() + "</bytes>");  
  
print("</export>");  
  
exit();
```