Procedure Correlate(IDMEF message)  
{  
 HyperAlert H = MapToHyperAlert(message);  
 /\*H = (HyperAlertTypeName, Fact, BeginTime, EndTime)\*/  
 HyperAertType HT = GetHyperAlertTypeFromDB(HyperAlertTypeName);  
 Prerequisite listPre[] = use Fact to replace free variables of HT’s prerequisite part;  
 Consequence listCon[] = use Fact to replace free variables of Ht’s consequence part;

IsCorrelated = false;  
  
For each p in listPre  
{  
 for each pc in ConsequenceTable  
 {  
 if p = pc then  
 {  
 HyperAlert HC = GetHyperAlertFromDB(pc);  
 if edge(HC, H) not exists in attack graph then  
 {  
 Add edge(HC, H) to attack graph;  
 IsCorrelated = true;  
 }  
 }  
 }   
}  
If IsCorrelated = true then  
 Add all c in listCon to ConsequenceTable

}