ABSTRACT

The development of technology is developing very rapidly especially to disseminate content such as digital video especially video on demand in the internet. It allows people to access digital content was whenever and wherever they are. Digital content is not free from the hijacking or cloning by those who do not have access to possess, because they are needed security system such as knowledge cryptography and DRM (Digital Rights Management) which is useful to protect the rights access, to prevent a digital content from piracy and help in the process concealment message or data. In this research, will use crypthography algorithm HC-128. Crypthography algorithm HC-128 is one of the four algorithm that was chosen in the competition eStream for the application software. Algorithm HC-128 results in a 128-bit keystream with key and 128-bit initialisation key vector.

This final project examines about performance of crypthography algorithm HC-128 in Video on Demand. The research was done to make programs using Netbeans IDEAS 8.0.2.

Keywords : Cryptography, HC-128, *Video on Demand*, DRM (*Digital Right Management)*