Abstract

In this paper, we focus on designing a real-time risk management system. The system will be using CME SPAN and will consist of a multithreaded daemon process to evaluate portfolios using SPAN calculation engines and programs to determine parameters fed to SPAN. SPAN parameters can be estimated by several methods using historical data. One of the goals is to
determine the best method for each parameter for every asset class. The other goal is to develop a responsive system to analyze portfolios and orders in real-time and to update the portfolio risks accordingly. Ultimately when these two parts are combined, we'll be constructing a real-time system to evaluate portfolio risks and to determine optimum margin requirements.

Reference


Index Terms

Computer Science

Applications

Key words

Financial risk management

Derivatives

Portfolio analysis

Estimation methods

SPAN