

KRISTAL-2000

0

(cokeman⁰, dsjin, kykim, joo, jerry, ybj)@kisti.re.kr

Design & Implementation of Information Retrieval & Management System KRISTAL-2000

Min-Ho Lee⁰, Du-Seok Jin, Kwang-Young Kim,

Won-Kyun Joo, Jerry Hyeon Seo, Beom-Jong You

Dept. Information System Research, Korea Institute of Science & Technology Information

DBMS

DBMS

DBMS

가 . DBMS

, DBMS

1.

. KISTI

DBMS 가

가, ,

가

가

가

KRISTAL-2000

가, ,

가

가

가

KRISTAL-

2000

2

KRISTAL-2000

. 4

가

DBMS

DBMS

DBMS

2. KRISTAL-2000

, 가 KRISTAL-2000

DBMS

DBMS

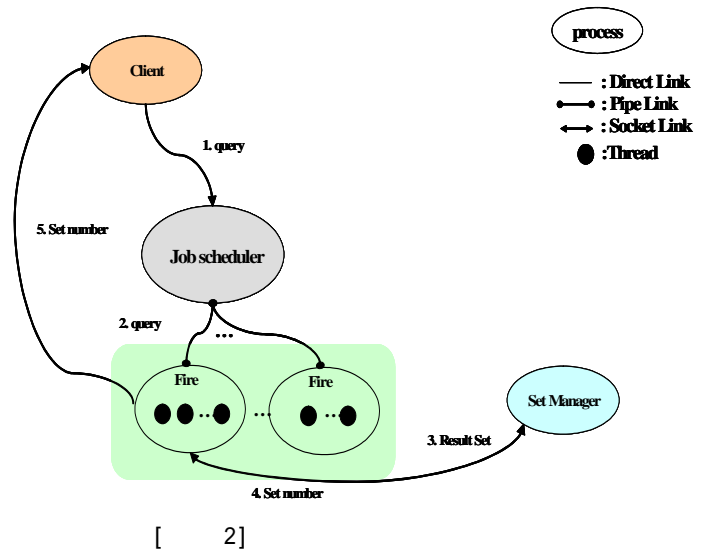
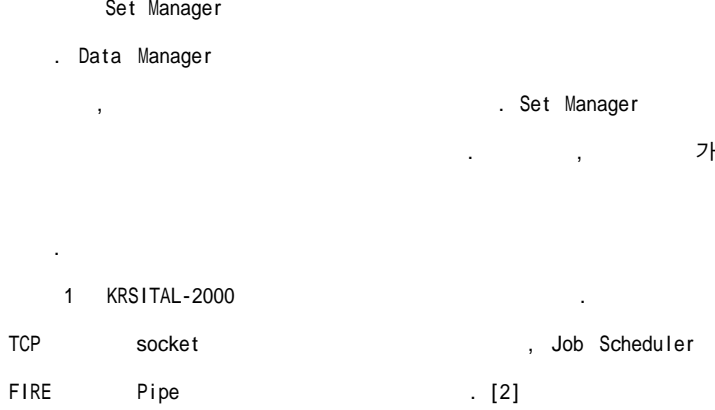
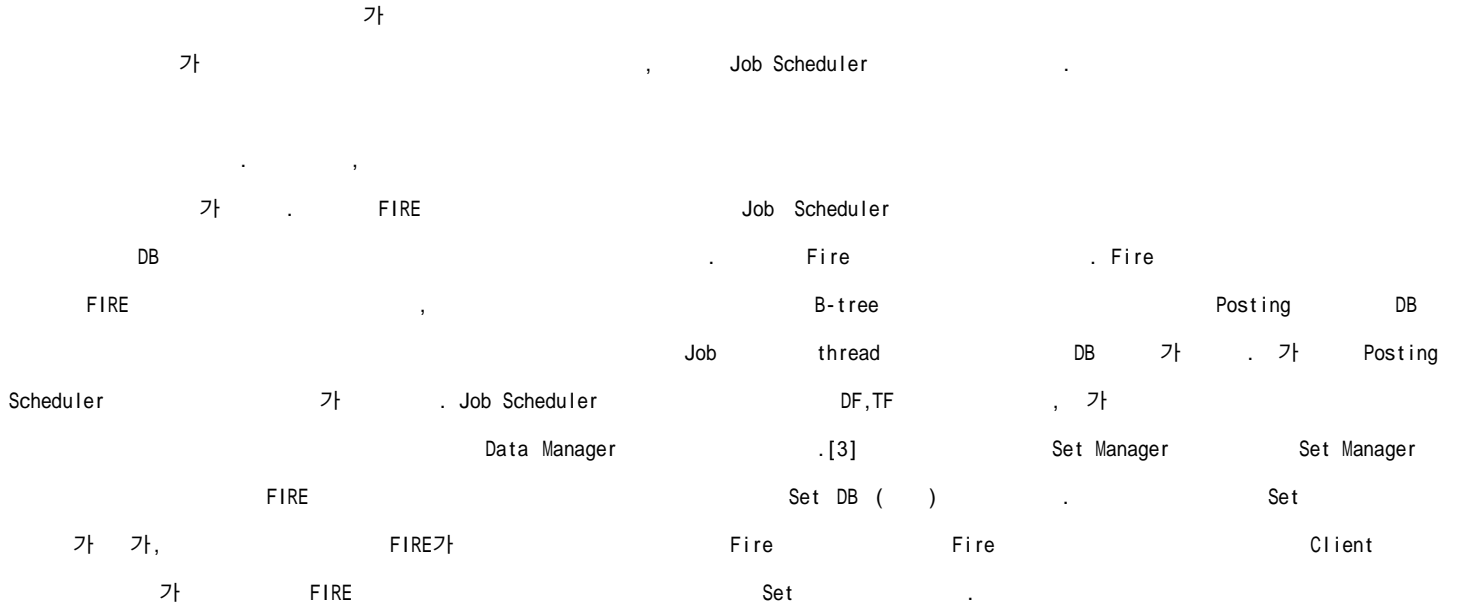
가 . [1]

DBMS

DBMS가 가

FIRE(Fast Information Retrieval Engine)

3.

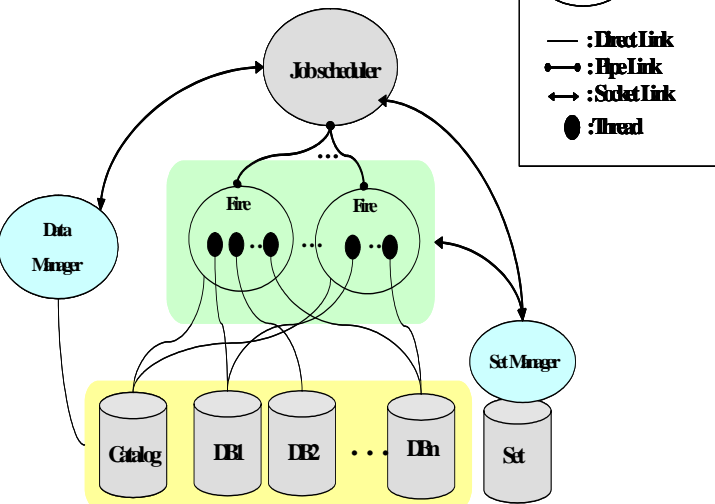


1 KRISTAL-2000

TCP socket

FIRE Pipe

[2]



Job Scheduler Data Manager Job Scheduler Data Manager 가 Blocking DB가 가 Data Manager Job Scheduler가

Set Manager 가 Set DB
 . Set Manager Set DB DB가
 TimeStamp . Job Scheduler DBMS
 DB가 Dirty Bit
 . Fire Dirty Bit DBMS
 . Job Scheduler DBMS
 Fire , 가 .
 , Fire Dirty Bit가 Open DB DBMS
 Open . Client . 가 .
 가

5.

4.

KRISTAL-2000

가
 가 가

DBMS

DBMS

DBMS

DBMS

DBMS

KRISTAL-2000

RPC

DBMS

SQL IRSQL

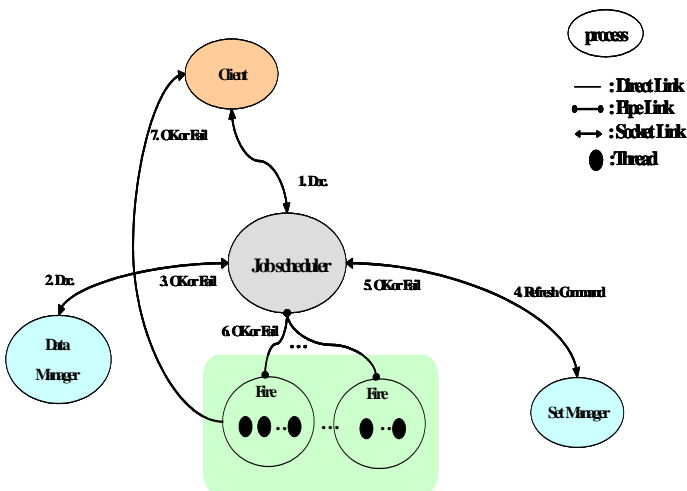
[]

[1] , “

”, 2002.

[2] W.Richard Stevens, “UNIX Network Programming vol.1”, Prentice Hall, 1998.

[3] Ricardo Baeza-Yates, Berthier Ribeiro-Neto, “Modern Information Retrieval”, Addison Wesley, 1999.



[3]