
/KISTI



1.

Term Definitions

(Data)

(Controlled Data)



, , , , 가

(Uncontrolled Data)



, ' 가 가

(Information)

- (Formatted Information)



- (Unformatted Information)



- (Semi - formatted Information)



(Structured Information)



가

- HTML, XML, SGML

- (Retriever or Searcher)



- (General Retriever)



- (Strict Retriever)



- (Administrator or Manager)



,

(Users)

- (General or Point Users)



- (Strict Users)



- ,

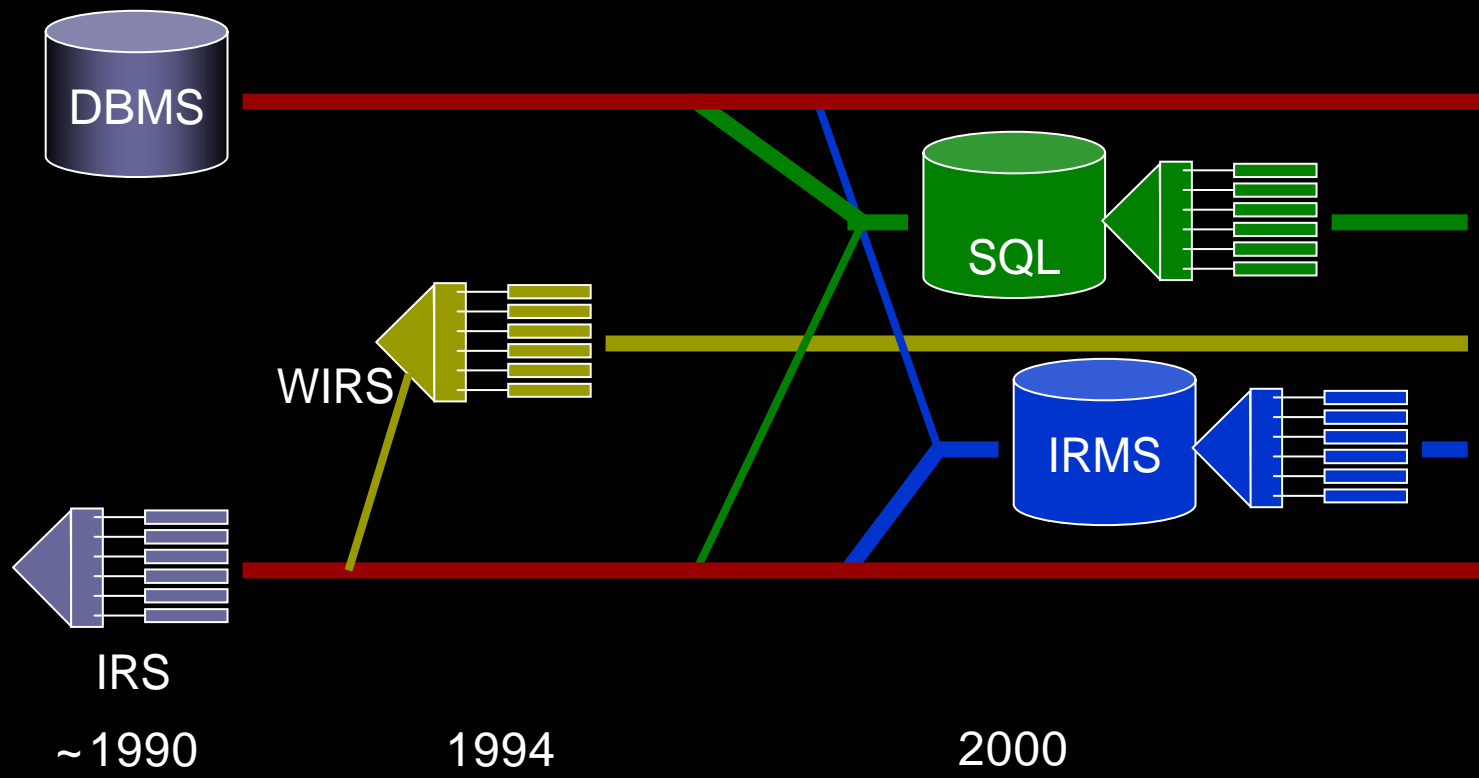


-
- DBMS(DataBase Management System)
 - SQL
 - IRS(Information Retrieval System)
 - Z.39.58,
 - WIRE(Web Information Retrieval Engine)
 -
 - XML RM(XML Repository Manager)
 - XML
 - XPath, XQuery
 - IRMS(Information Retrieval Management System)
 - Z.39.58, SQL,

DBMS		SQL		,
IRS		Z.39.58		
WIRE				
XML RM		XPath, XQuery		XML
IRMS		Z.39.58, SQL		, , ,

2.

Information Service Systems

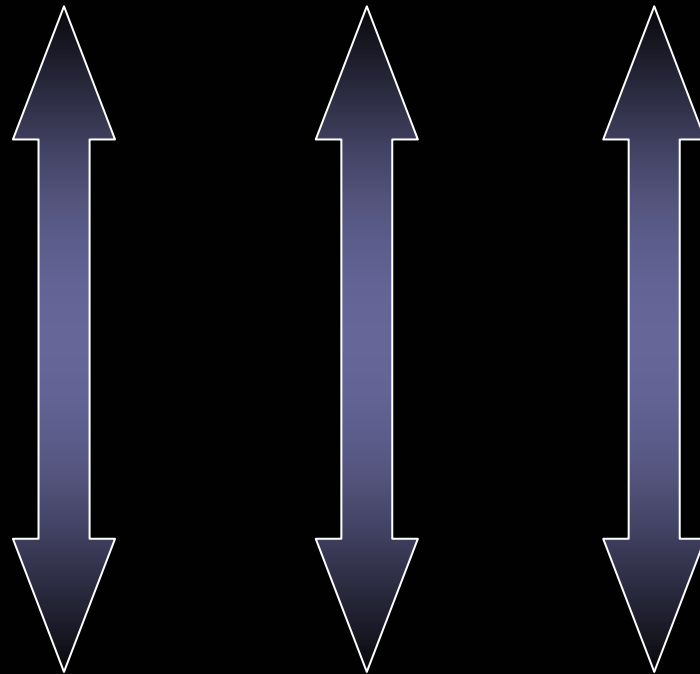


■ DBMS

■ DBMS+IRS

■ IRMS

■ WIRE





(T_m)

(T_r)

(C_i)

(; S_i)

가

$$\sqrt[3]{\sqrt{S_i} \cdot C_i \times T_m \cdot P_m \times T_r \cdot P_r} \leq V$$

P_m :

P_r :

V :

KRISTAL , 1,500 ,
400

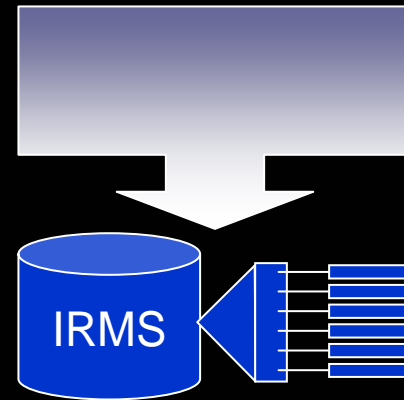
P_m : 3

P_r for boolean: 2
for vector: 0.2

- $C_i=1(100)$
- $S_i=1(1GB)$
- $T_m=1/1(1)$
- $T_r=1/10(10)$
- $P_m=3(3)$
- $P_r=2(가)$

$$\sqrt[3]{\sqrt{1 \cdot 1} \times \frac{1}{1} \cdot 3 \times \frac{1}{10} \cdot 2}$$
$$= \sqrt[3]{1 \times 3 \times 0.2} = \sqrt[3]{0.6} \approx 0.84 < 1$$

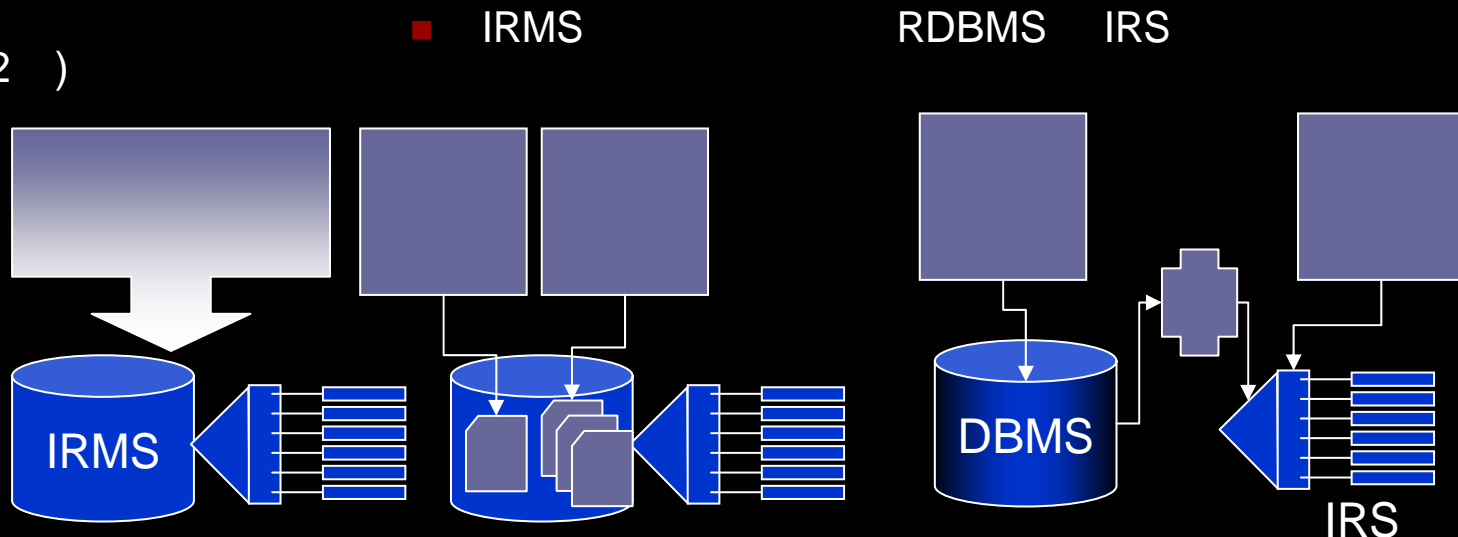
■ IRMS



- $C_i=10$ ()
- $S_i=10$ (10GB)
- $T_m=1$ (1)
- $T_r=10$ (10)
- $P_m=3$ (, 3)
- $P_r=2$ (가 2)

$$\sqrt[3]{\sqrt{1 \cdot 1 \times 1 \cdot 3 \times 10 \cdot 2}}$$

$$= \sqrt[3]{1 \times 3 \times 20} = \sqrt[3]{60} \approx 3.9 < 10$$

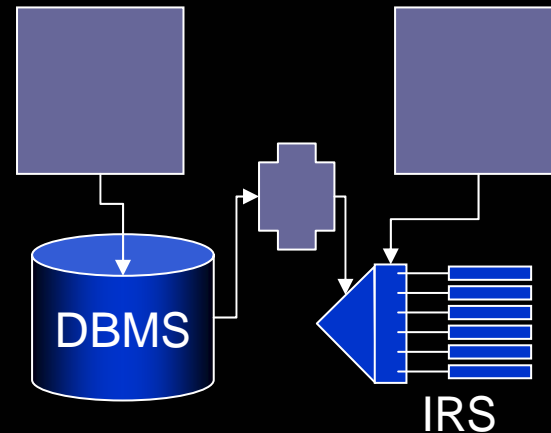


- $C_i=50$ (5)
- $S_i=50$ (50GB)
- $T_m=60$ (1)
- $T_r=0.2$ (5 1)
- $P_m=3$ (, 3)
- $P_r=2$ (가 2)

$$\sqrt[3]{\sqrt{50 \cdot 50} \times 60 \cdot 3 \times 0.2 \cdot 2}$$

$$= \sqrt[3]{50 \times 180 \times 0.4} = \sqrt[3]{3600} \approx 15.3 > 10$$

- RDBMS IRS



- $C_i=50(5)$
- $S_i=50(50\text{GB})$
- $T_m=60(1)$
- $T_r=50(50)$
- $P_m=3()$
- $P_r=2()$

가 2

$$\begin{aligned} & \sqrt[3]{\sqrt{50 \cdot 50} \times 60 \cdot 3 \times 50 \cdot 2} \\ & = \sqrt[3]{50 \times 180 \times 100} = \sqrt[3]{900000} \approx 96.5 \gg 10 \end{aligned}$$

