

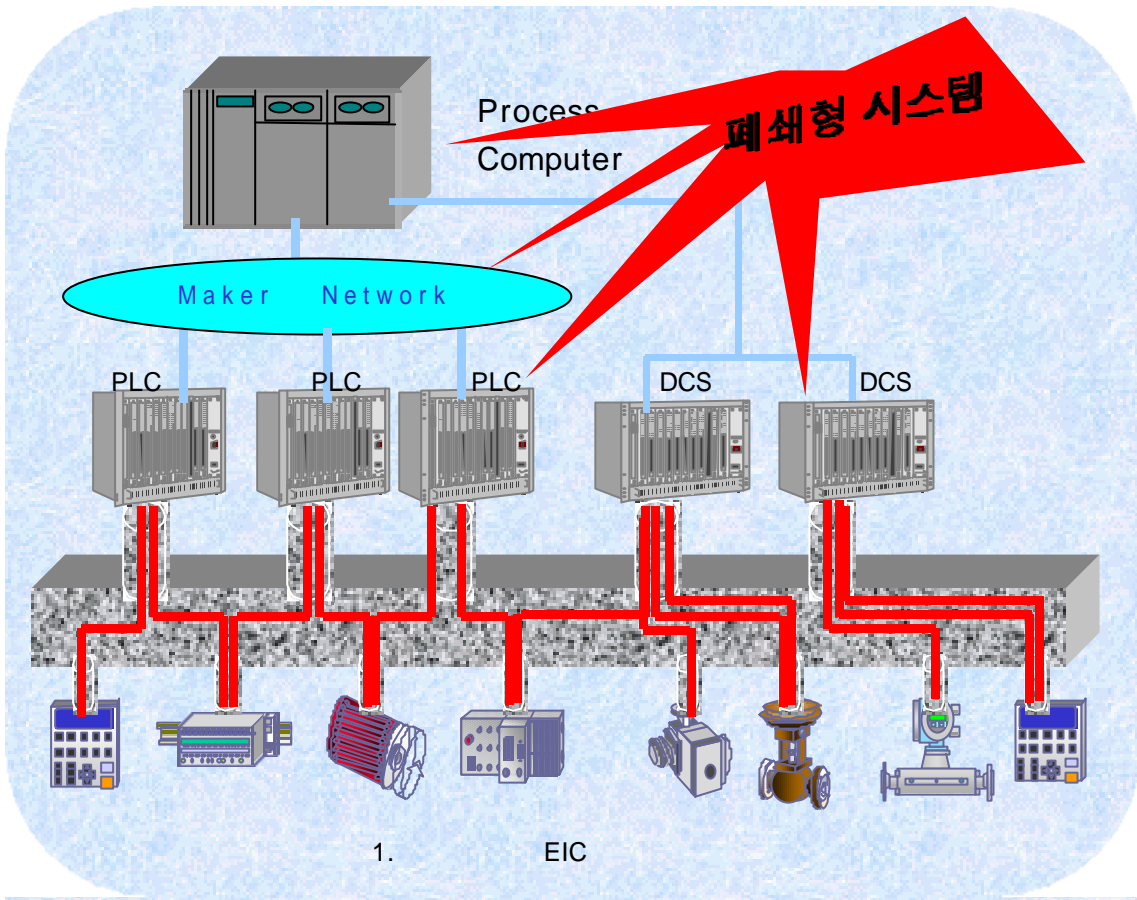
# PC -based

PC-based

1. PLC(Programmable Logic Controller)/ DCS(Distributed Control System) Benchmarking  
PC-based (Fieldbus) ,  
Softlogic( ), Real Time Operating System( )  
30 가  
Maker PC-based Real Time ,  
Vendor , Vendor  
PC, FIELDBUS , Remote IO , SoftLogic  
가 PC-based PC-based  
Integration ,

Maker  
Maker  
Maker  
Network  
Gateway 가  
1  
Maker  
1 가 Actuator  
가

## 2. PC -based



가

PC-based EIC

2	PC-based	PC-based	Open
		Architecture Hardware Software	
1 ('96-'98)	Business	가 , , Windows NT	Hard
Computer		Real Time Operating System	
PLC/DCS	Process	Open Network 가	
Computer		Fieldbus	Remote
PC-server		I/O	
		Sensor Actuator	
2 ('98-2000)	/		
PLC/DCS	PC-based		
Controller			

Reverse Engineering  
PC-based

가

가

가 FORTRAN

2 PC-

3. PC-based server Clustering Software MS Visual C++

3.1 (Meter per minute) Tracking

Computer Process Computer Micro Remote IO

Computer PC-based PROFIBUS OPC

C++

3.2 PC-based 1

Computer Process

Computer YEWCOM 8000( )

PC-server

3.4. 가

Project YEWCOM Hardware

Architecture PC-based Process

Computer System Software Package software가

Hardware 가 가

1

가

가

Tool , 100msec

Y2K 가

Real Time Task

가 50%

가

3.3

4. PLC/DCS PC - based

2) PLC PC-based

4.1

Maker PLC/DCS PC Real Time OS, FIELDBUS, SOFTLOGIC, Remote IO Device

Shear Line Sheet

PLC 7 가

Benchmarking

Solution 가

1 PC-based

가 PC-based

. 1000 Point Digital, Analog, Pulse

Remote IO

PROFIBUS

SoftLogic

4.2

Steeplechase Controller)

VLC(Visual Logic 가

DCS One Loop

Controller 17 1

PC-based

20msec

가

2

Shear Line

3)

PLC PC-based

PLC

PC-based

4.3

가

1)

DCS PC-based

가 110m

82

4

PLC가

DCS

17 One Loop

3 PC-based

Controller

1

PC-based

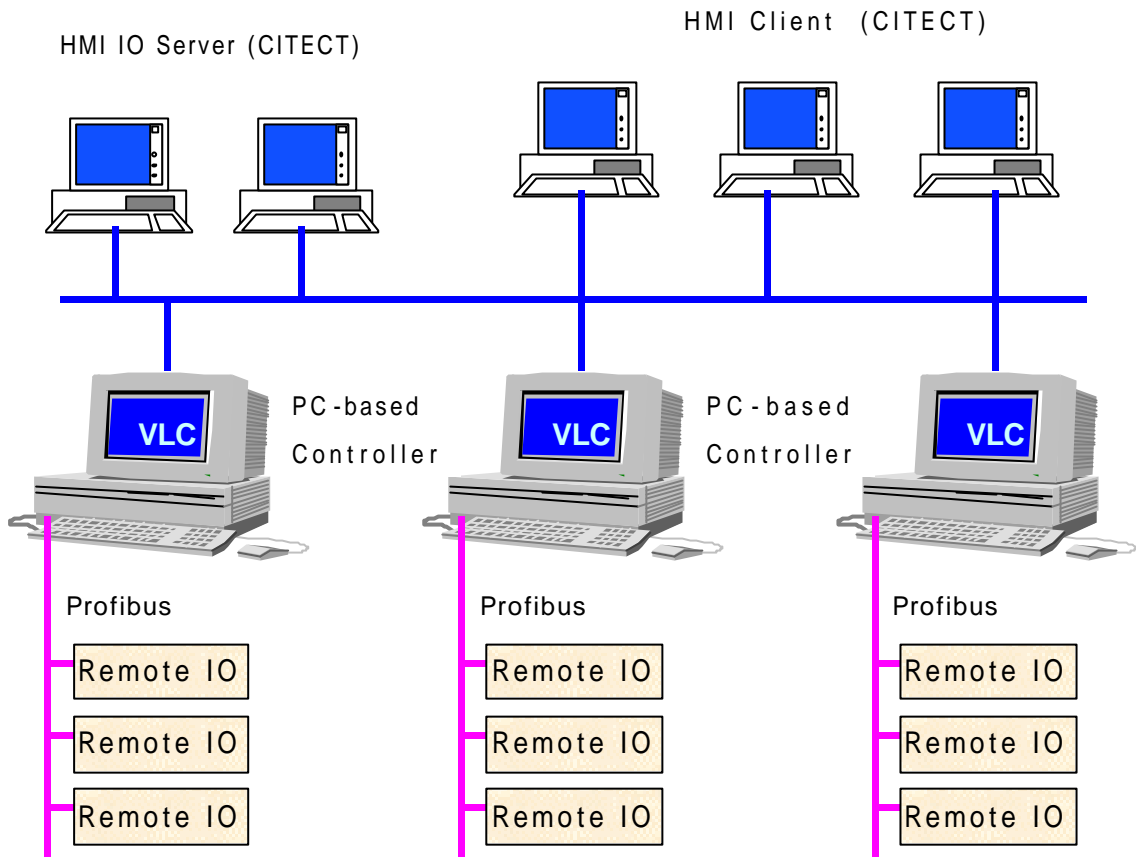
2

3

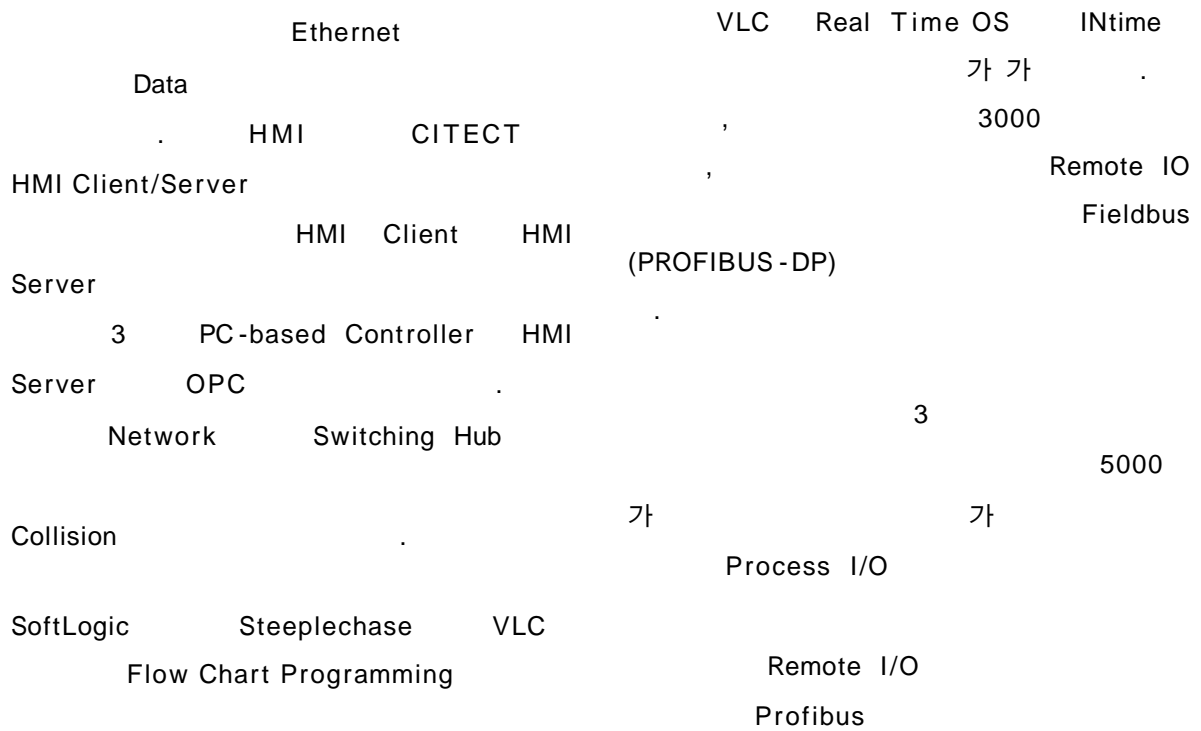
PC-based

PID

Controller가



2. PC-based



PC-based Controller 가 .

40% .

3000 Point 4) 가

Logic 1.7msec

가 Maker PLC/DCS

HMI 100msec PC-based

Monitoring Set up Maker

. PLC/DCS

4.4 PLC/DCS PC-based Tool

가

1)

PLC/DCS PC-based System Integration

가 PC-based

가 SoftLogic PLC/DCS

PC-based

2) 가

- PLC/DCS PC-based 24 가

가 Flow

- PC-based SoftLogic 가 Chart Programming Ladder Logic

- Filedbus 가 VLC(Visual Logic Controller)

- PC-based Real Time Operating System . Flow Chart Programming

가 Ladder 가가

Process

3) 가

Maker White Paper

가 PLC 5

가

/

Flow Chart

Windows NT  
 GUI RTOS Mission-critical  
 가 . SoftLogic Process  
 가 Real  
 Time Operating System(RTOS)  
 . 100msec PLC/DCS  
 Windows NT  
 SoftLogic 100msec . INtime RTOS  
 Multibus I, II PLC  
 Windows NT 가  
 RTOS가 SoftLogic iRMX (Intel RTOS) Windows NT  
 . Version Upgrade  
 RTOS  
 가 PC  
 Windows NT Operating Remote IO  
 System Hard Real Time , 20msec  
 Windows NT Fieldbus  
 가 가 6000 point  
 RTOS가 가 Digital IO 2msec  
 12Mbps  
 PC-based RTOS INtime  
 . INtime RTOS 20 200 PROFIBUS-DP  
 Applications Fieldbus

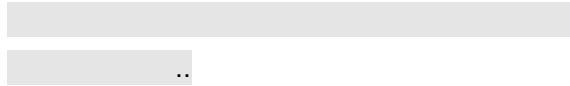
가		가
1. PLC/DCS PC-based	PC-based	PC-based PLC/DCS
2. SoftLogic	VLC	RTOS Flow Chart Programming 가
3. Fieldbus	PROFIBUS-DP	Scan Time (0.5-100ms)
4. PC-based Real Time Operating System	INtime	Windows NT-based Hard Real Time OS

2. POSCO PC-based

PC-based  
 PLC/DCS  
 Interrupt  
 Scan Rate  
 Digital  
 Input Interrupt  
 based 2 PC- PC-based  
 가 가  
 가 /

5.

3



Vendor 가 ,  
 가  
 Fieldbus  
 Hard wire Engineering  
 Cable

Culvert 가 가  
 43% 가  
 Windows NT S/W  
 H/W

28%  
 43% Spare Part Total Cost  
 70%

6. PC-based

Solution PC-  
 based ..  
 PC-based  
 SoftLogic, Fieldbus, Real Time OS  
 Solution



3 : PLC/DCS PC-based

	PC-based	PLC/DCS	
1. Hardware	POSCO 가 EIC	Maker 가 EI	: 28%
2. System Software	POSCO Software Package	Maker Software	
3. Integration	POSCO Integration	Maker Engineer System Integration	
3.	Tool ,	: Maker :	: 30%
4.	Fieldbus Remote I/O <-> Cable Remote IO Shutdown Cable	Process I/O <-> Cable Cable :	: 43%
5.	가 Spare Part Tool Maker 가 Maker	가 Spre Part 가 Maker 가( 가) Maker	

Solution

PC-based

SoftLogic, Fieldbus

Benchmarking Simulation ..

PC-based Vendor

System

Integration

PLC/DCS

Solution

가 PC-

based

Simulation

( PROFIBUS )



< I/O >



< (2core) >



< PC-based Controller >

EIC PC -  
Based



(사진 ~19.JPG)

< sensor/Actuator >



<4200가  
가

>



(사진 ~16.JPG)

< PLC Process I/O >

PC-based  
PC-based



< Maker  
가  
PC-based PC  
>



< Guidance HMI  
Maker 21" CRT  
가 PC 42"  
>