

2004 3 “

1

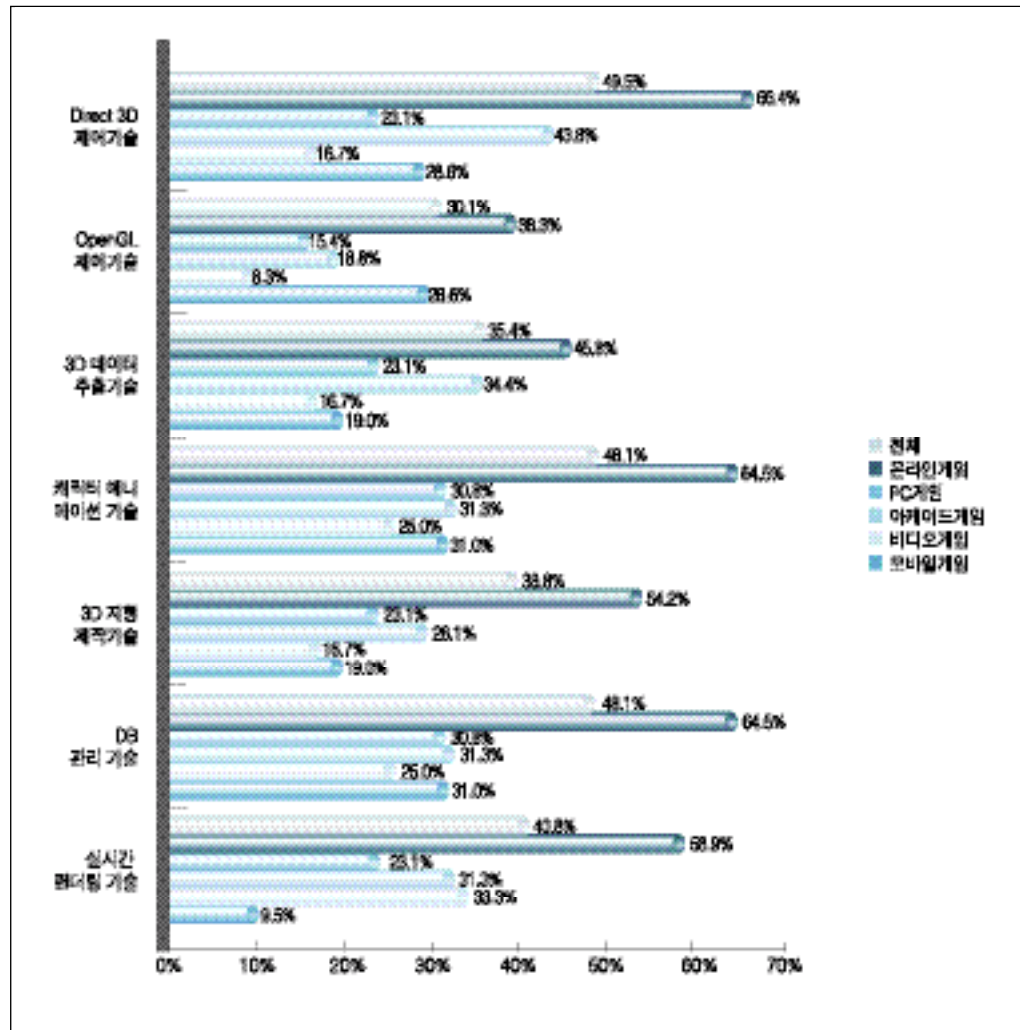
1. , ‘Direct
 3D ’ 66.4% 가
 (1) 3D , PC ‘
 3D , ‘ DB
 40% , 30.8%() , 31%(
)
 가가 ‘Direct 3D
 43.8% ,
 3D ‘Direct 3D 33.3% ‘
 ’ 가 , ’ 3D 가
 ,
 가



< 5-4-1-01> 3D (:%)

			PC	()	()	()
Direct 3D	49.5	66.4	23.1	43.8	16.7	28.6
OpenGL	30.1	38.3	15.4	18.8	8.3	28.6
3D	35.4	45.8	23.1	34.4	16.7	19.0
	48.1	64.5	30.8	31.3	25.0	31.0
3D	38.8	54.2	23.1	28.1	16.7	19.0
DB	48.1	64.5	30.8	31.3	25.0	31.0
	40.8	58.9	23.1	31.3	33.3	9.5

< 5-4-1-01> 3D



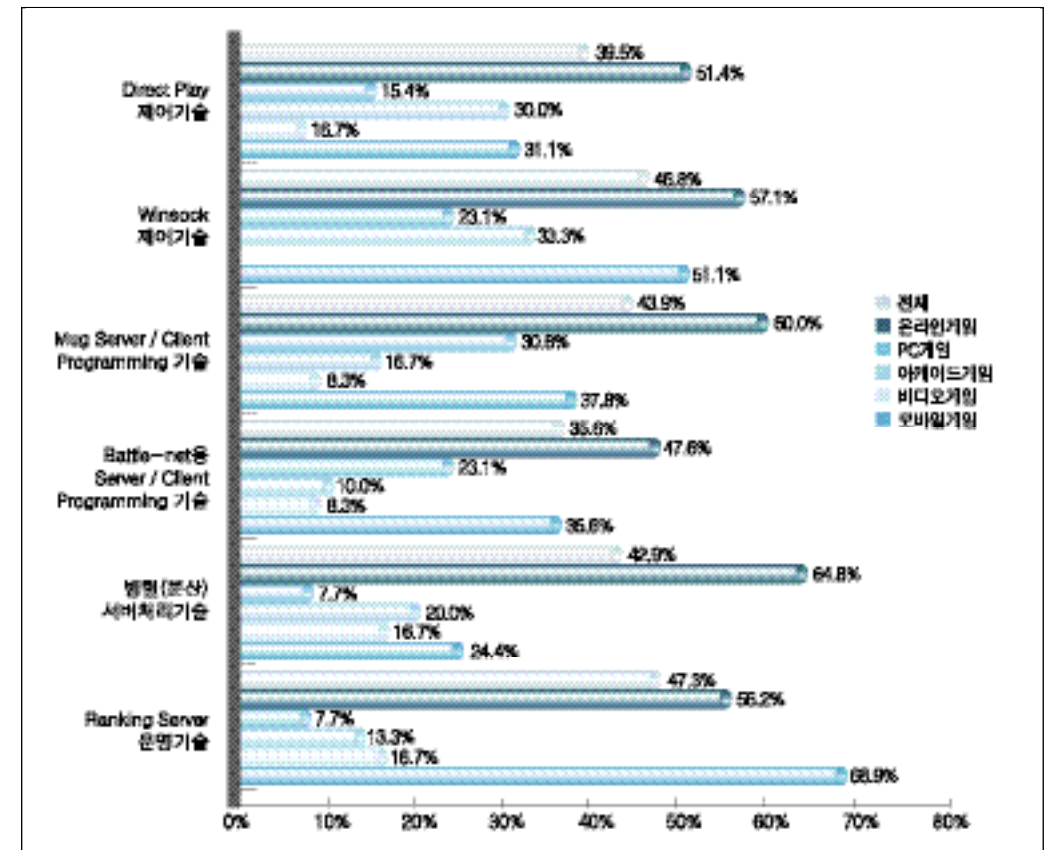
(2) Winsock, Battle-net, Direct Play, Ranking Server, MUG Server/Client Programming, PC, MUG Server/Client Programming, Ranking Server

Server/Client Programming, Winsock, Battle-net, Server/Client Programming, Direct Play, Winsock, Ranking Server, Direct Play, MUG Server/Client

< 5-4-1-02> (:%)

			PC	()	()	()
Direct Play	39.5	51.4	15.4	30.0	16.7	31.1
Winsock	46.8	57.1	23.1	33.3	-	51.1
MUG Server/Client Programming	43.9	60.0	30.8	16.7	8.3	37.8
Battle-net Server/Client Programming	35.6	47.6	23.1	10.0	8.3	35.6
()	42.9	64.8	7.7	20.0	16.7	24.4
Ranking Server	47.3	56.2	7.7	13.3	16.7	68.9

< 5-4-1-02>



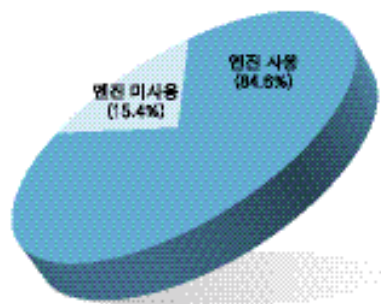
Programming ' Battle-net Server/
Client Program-ming

' Ranking Server ' 가
, ' Winsock '

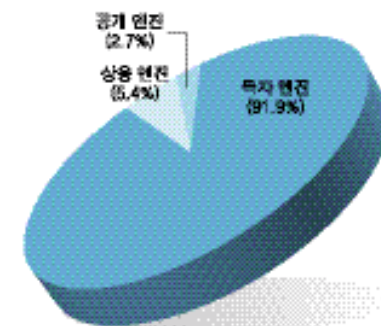
(3)

84.6%가
2003 74.3% 10.3%

< 5-4-1-03>



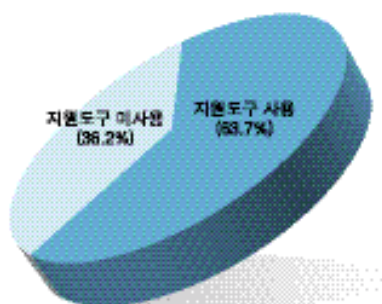
< 5-4-1-04>



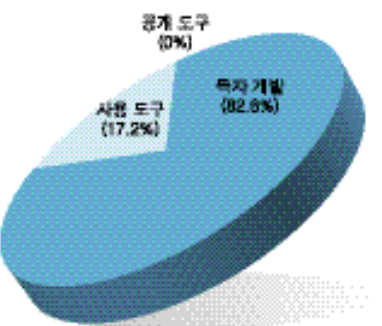
(4)

66.9% 91.9%
63.8%가

< 5-4-1-05>



< 5-4-1-06>

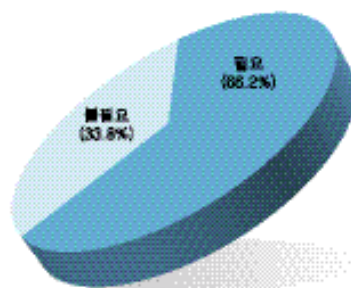


2003 50% 가
가 84.6% 가
가 55.3% 가

(5)

가 가 가
63.5%가
, 20.6%가1~2
가 15.9% 가
가 84.1%가
가 가

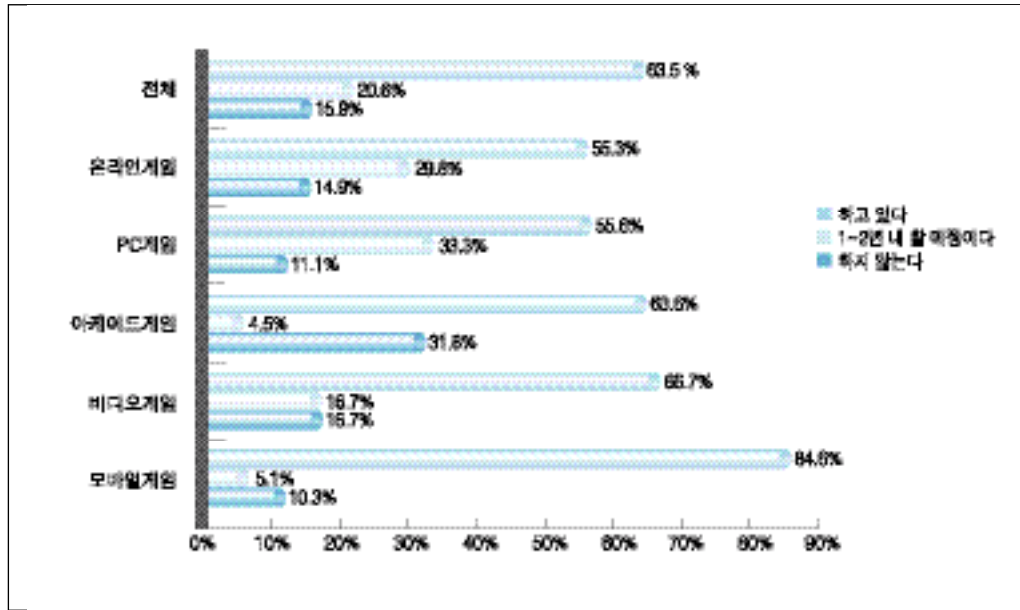
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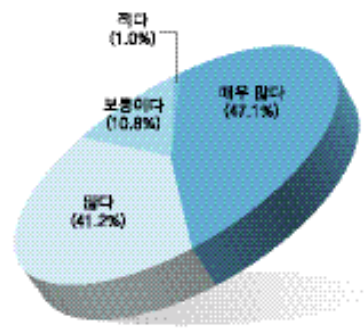
< 5-4-1-03>

			PC	()	()	()
	63.5	55.3	55.6	63.6	66.7	84.6
1~2	20.6	29.8	33.3	4.5	16.7	5.1
	15.9	14.9	11.1	31.8	16.7	10.3

< 5-4-1-08 >



< 5-4-1-09 > 가가



'1~5' 가 71.4% . 2003

(77.4%)

가 12.9%

가

()

44.1%가 '1~5'

가

가

가

33.3%

가 '6~10'

가

16.7%

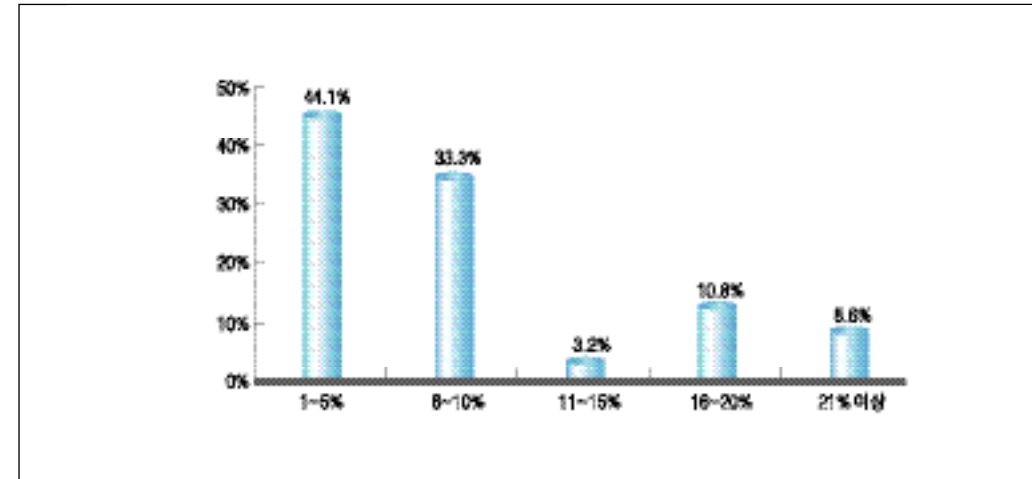
가

가

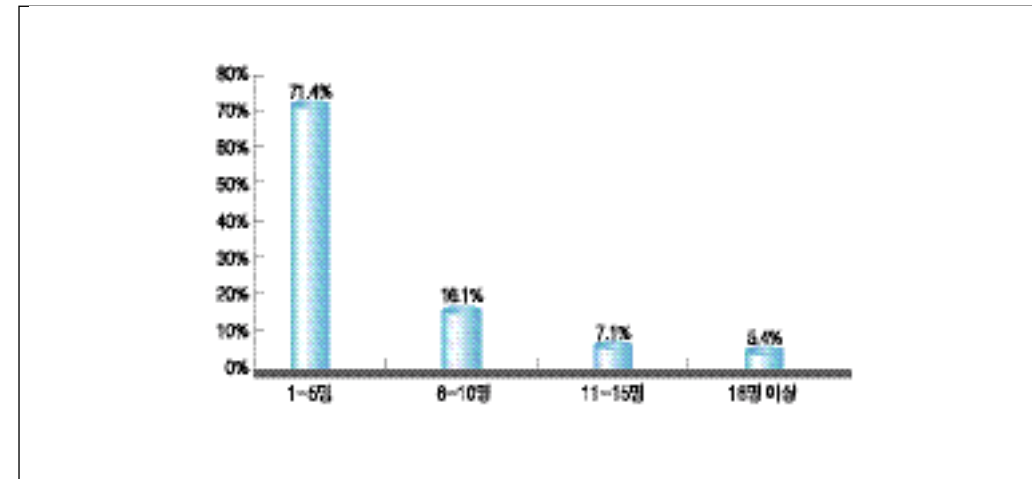
가

< 5-4-1-10 >

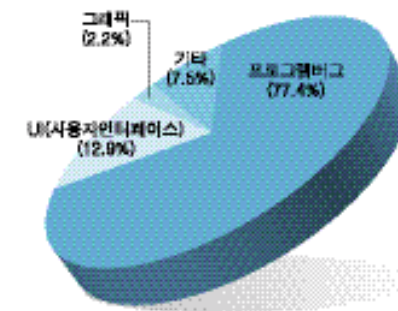
가



< 5-4-1-11 >



< 5-4-1-12 >



2.

(1)

3D Studio Max 가 37.8% 가
 ' Maya ' 10%, ' Softimage 3D ' 5.6%, ' Lightwave 3D ' 5.6%, ' Rhino 3D ' 2%, ' Lightscape ' 0.8%
 ' Photoshop ' 53%, ' Illustrator ' 40.6%, ' Painter ' 25.1%
 ' Visual C++, JAVA ' 가 41.0% 가 10.4%
 ' C++ ' 40.6%, ' C ' 가 26.3%, ' Assembler ' 가 10.4%
 ' ASP ' 가 29.9%, ' PHP ' 가 20.7%, 1.6%
 ' Servlet ' 8.8%, ' Delphi ' 가 4.4%, ' Perl ' 2.4%
 ' JAVA ', ' C or C++ ', ' Basic ' 28.3%, 25.1%, 11.6%
 ' Shockwave ' ' Animation Editor ' 가 21.9%,
 ' Flash ' 가 9.6%, 24.7% ' Sprite Editor ' 19.9%, ' Data Converter ' 18.7%

(2)

3D ' Edit ' 가 6.4%, ' Combustion ' 2%

< 5-4-1-04>

(:%)

			PC	()	()	()	
Main Program	Assembler	10.4	11.0	-	15.0	5.6	10.2
	C	26.3	22.8	5.9	27.5	5.6	49.0
	C++	40.6	47.2	5.9	37.5	5.6	51.0
	JAVA, Visual C++	41.0	44.9	11.8	25.0	11.0	65.3
Web based implements	PHP	20.7	24.4	5.9	7.5	-	34.7
	ASP	29.9	35.4	5.9	7.5	5.6	51.0
	Servlet	8.8	10.2	-	2.5	-	16.3
	Perl	2.4	1.6	-	-	-	8.2
	Delphi	4.4	6.3	-	2.5	-	4.1
Script	JAVA	28.3	29.1	11.8	7.5	5.6	57.1
	Basic	11.6	12.6	5.9	5.0	-	20.4
	C or C++	25.1	28.3	11.8	10.0	5.6	40.8
	Shockwave	9.6	11.8	5.9	5.0	-	12.2
	Flash	24.7	33.1	5.9	5.0	-	34.7

' Fusion ' 2.4%, ' Shale ' 2.0%

< 5-4-1-05>

(:%)

			PC	()	()	()	
3D Modeling & Animation	3D Studio Max	37.8	51.2	17.6	30.0	11.1	26.5
	Maya	10.0	15.0	-	5.0	11.1	4.1
	Softimage 3D	5.6	8.7	5.9	5.0	-	-
	Lightwave 3D	5.6	7.9	-	7.5	5.6	-
	Lightscape	0.8	1.6	-	-	-	-
2D Image Process	Rhino 3D	2.0	3.1	-	2.5	-	-
	Photoshop	53.0	58.3	23.5	42.5	27.8	67.3
	Painter	25.1	32.3	11.8	10.0	5.6	30.6
Data Convert	Illustrator	40.6	43.3	17.6	32.5	16.7	57.1
	Polytrans	1.6	2.4	-	-	-	2.0
Multi Media	Director	10.4	12.6	5.9	2.5	11.1	12.2
	Premire	21.5	25.2	5.9	17.5	5.6	26.5
	Flash	30.7	33.9	11.8	20.0	5.6	46.9
	Autowave	5.6	6.3	-	2.5	5.6	8.2
Custom Tools	Map Editor	27.5	38.6	11.8	12.5	11.1	22.4
	Sprite Editor	19.9	28.3	5.9	12.5	5.6	14.3
	Animation Editor	21.9	32.3	-	15.0	11.1	12.2
	Data Converter	18.7	27.6	-	10.0	5.6	14.3
Special Effect	Illusion	6.8	9.4	5.9	2.5	5.6	4.1
	Effect*	8.8	13.4	5.9	2.5	5.6	4.1
Video Editing	Edit	6.4	7.9	5.9	-	11.1	6.1
	Combustion	2.0	2.4	-	2.5	5.6	-
Video Compositing	Fusion	2.4	2.4	-	-	5.6	4.1
	Shake	2.0	3.9	-	-	-	-

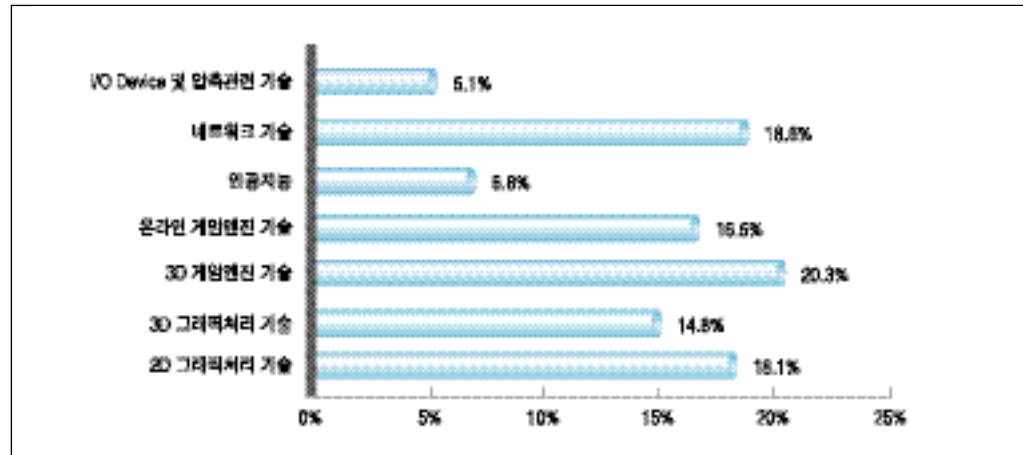
5

2

1.

가
 2002 ' 3D ' , 2003
 가
 ' ' 가
 , ' 3D
 ' 20.3% 가
 , 18.6%가
 ' 3D
 ' ' ,

< 5-4-2-01>가

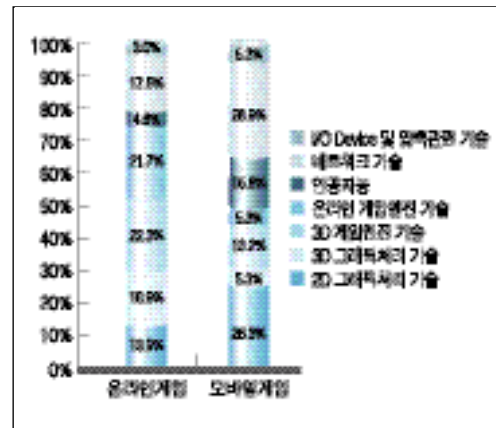


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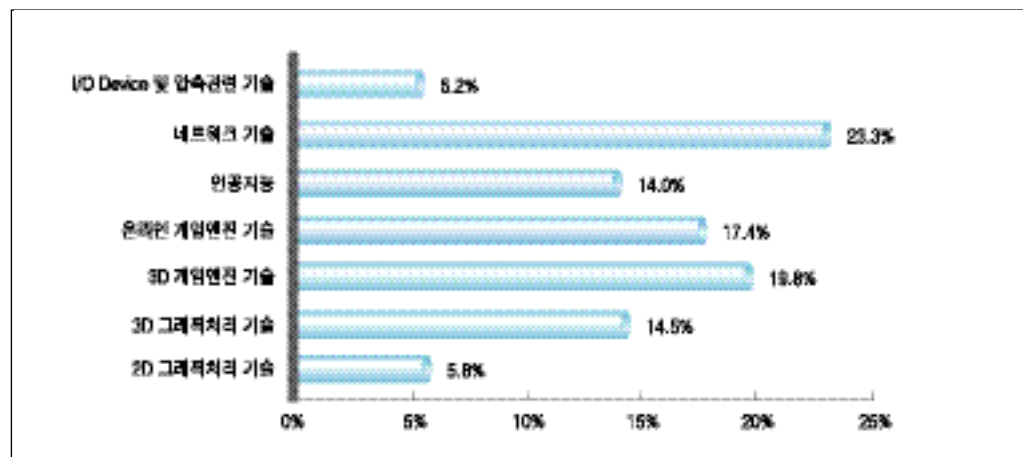
2D

2.

23.3%가



< 5-4-2-03>



2003 50.4% 59.7%
 '3D' ; '3D' 19.8%, / ' 12.5%
 17.4%, 14.5%가 가 6.1%

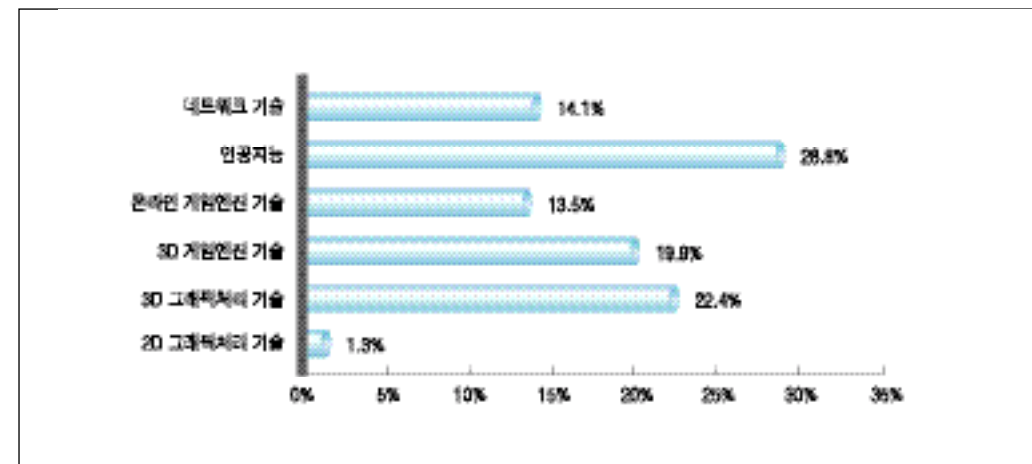
3.

가 1~2
 2002 가 62.4%, 58.3% 가
 2003 (24.4%) 4.4% 가
 28.8% / (12.8%)
 가 (10.7%),
 가 (6.0%)

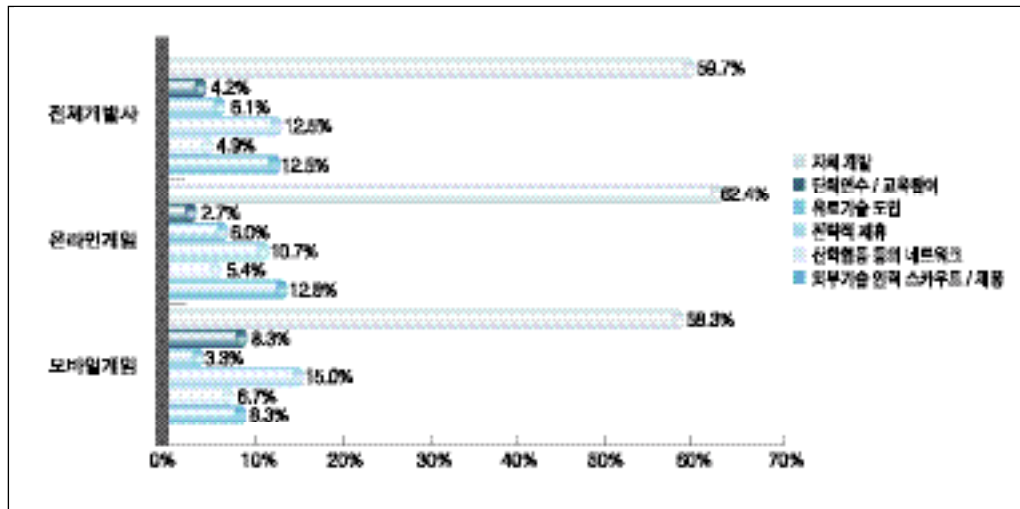
4.

가 15.0%
 / ' ' / ' / '
 8.3%
 가 가

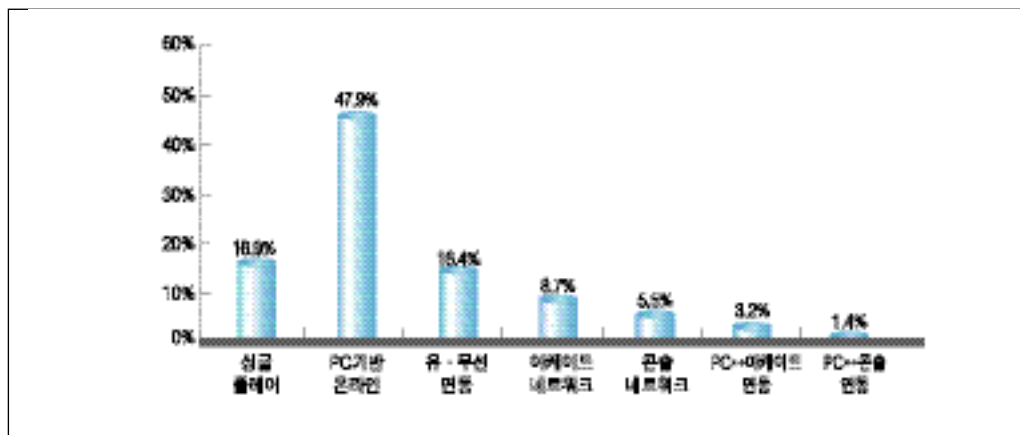
< 5-4-2-04> 1~2



< 5-4-2-05>

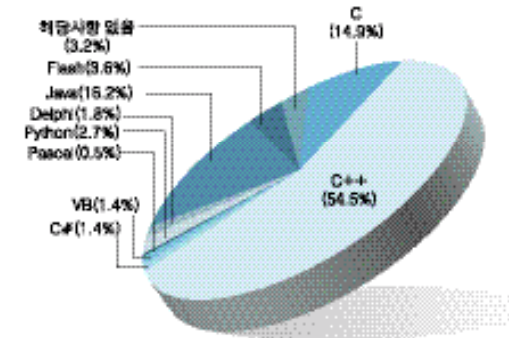


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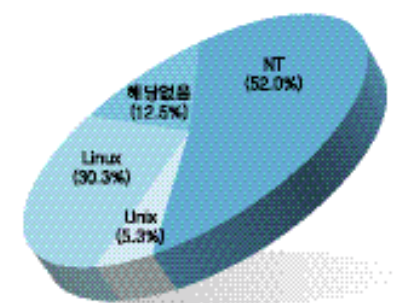


PC 47.9% 가, C++ 54.5%
 가, Java, C
 16.9%, 가 16.2%, 14.9%
 16.4%, '8.7%, C++
 '5.5%, ' PC 가, C
 '1.4% 가 17.5%, Java 가 16%
 NT, Linux, Unix
 52%, 30.3%, 5.3%

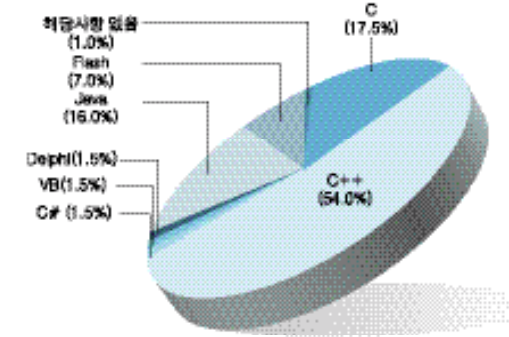
< 5-4-2-07>



< 5-4-2-09>



< 5-4-2-08>



31.7% 가
 20.9%,
 20.1%



< 5-4-2-10>

