

2017 294 6

**“云计算和大数据”重点专项
2018年度项目申报指南**

2006-2020

2018

4

31

1

		5	2016—2020	
2016		4		12
15	2017	4		15
15	2018	4		20
20-40				

1.2		NVM	TB		
					I/O
	RDMA				TB
		8			
TB					
1μs			10μs		8
40GB/s		ops	5000	/s	ops
1000	/s	ZB		1-3	

1.3

CPU

CPU

CPU-GPU

CPU-GPU

GPU SM

kernel

8

16

GPU

CPU/GPU

GPU

2

CPU

5

1.4

GTEPS 10
1TFlops 10GTEPS
2-3 50
10
2
1.5
/
/
/
/
/
/
/
/
256 2TB

X86

1.6

20%

6

2.

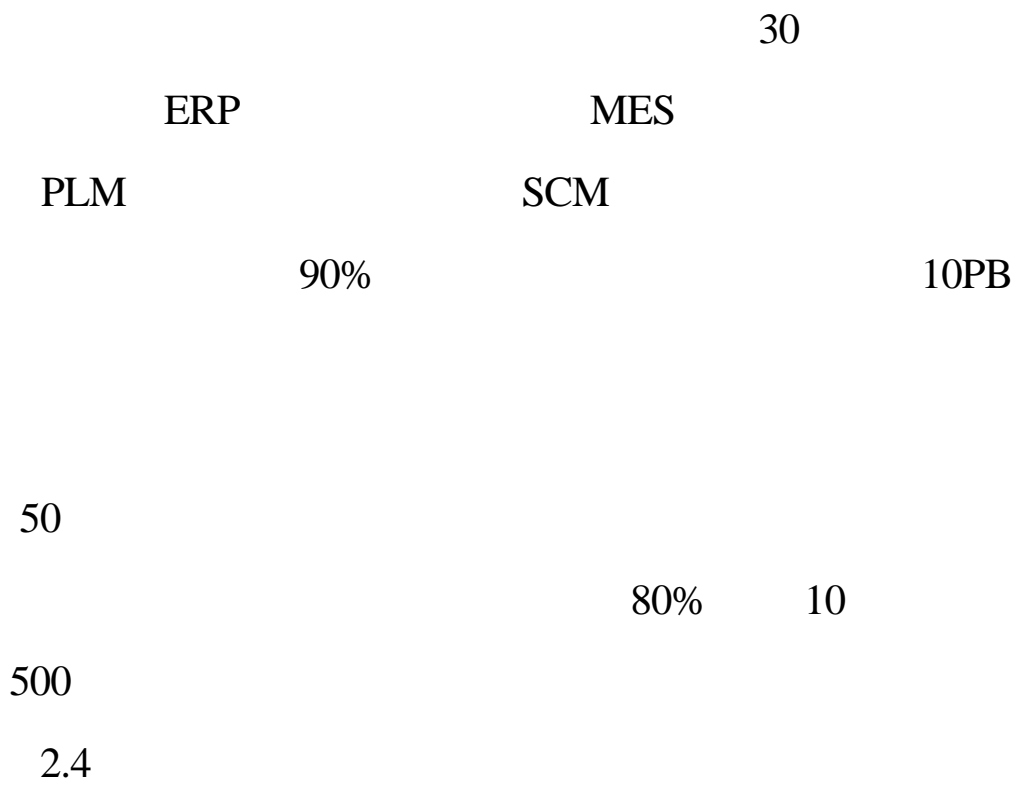
2.1

10

1000

2.2

1000
2 100
3
1000 100
10
70% 70%
50%
2.3



10

80%

80%

3-5

2.5

100

100

1

1000

10

20%

10

100

10

3.

3.1

+

20

3.2

11

50%

1

80%

5

PB

3.3

12

MOOC

-

90%

87%

NDCG

NDCG@10

86%

90%

100

10000

1000

100

10

VR/MR/AR

20

300

30

5

3.4

3

90%

3

90%

95%

90%

95%

95%

10

3.5

14

100 10
10 1
98%
24 1000
72
1
2

4.

4.1

+

15

	Android	Linux
OpenStack /		
10	100	1000

4.2

20m²

60fps

90%

5

500

1TB/s

6GB/s

4GB/s

50

4.3

90%

5

200

4.4

3

95%

150