**ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΥΠΡΟΥ**

**ΤΜΗΜΑ ΠΛΗΡΟΦΟΡΙΚΗΣ**

ΕΠΛ425 : Τεχνολογίες Διαδικτύου

Χειμερινό Εξάμηνο 2016

Wn16\_tm5

**Plots**

**Γραφικές Παραστάσεις**

1. Latency vs Number of Users (for 1, 2, 4 vCPU)
2. Throughput vs Number of Users (for 1, 2, 4 vCPU)

**User Number 1**

**Server.java**

Server Throughput:3

HELLO 127.0.0.1 55021 0

**Client.java**

Communication Latency:16

WELCOME 896 id 0

**User Number 2**

**Server.java**

Server Throughput:3

HELLO 127.0.0.1 55026 0

HELLO 127.0.0.1 55027 1

**Client.java**

Communication Latency:16

WELCOME 2304 id 1

WELCOME 1664 id 0

**User Number 3**

**Server.java**

Server Throughput:2

HELLO 127.0.0.1 55031 0

HELLO 127.0.0.1 55032 1

HELLO 127.0.0.1 55033 2

**Client.java**

Communication Latency:16

WELCOME 1152 id 1

WELCOME 576 id 2

WELCOME 1280 id 0

**User Number 5**

**Server.java**

Server Throughput:3

HELLO 127.0.0.1 55055 0

HELLO 127.0.0.1 55056 1

HELLO 127.0.0.1 55057 2

HELLO 127.0.0.1 55058 3

HELLO 127.0.0.1 55059 4

**Client.java**

Communication Latency:21

WELCOME 1600 id 1

WELCOME 1408 id 2

WELCOME 2112 id 4

WELCOME 640 id 3

WELCOME 1344 id 0

**User Number 10**

**Server.java**

Server Throughput:2

HELLO 127.0.0.1 55063 0

HELLO 127.0.0.1 55064 1

HELLO 127.0.0.1 55065 2

HELLO 127.0.0.1 55066 3

HELLO 127.0.0.1 55067 4

HELLO 127.0.0.1 55068 5

HELLO 127.0.0.1 55069 6

HELLO 127.0.0.1 55071 8

HELLO 127.0.0.1 55070 7

HELLO 127.0.0.1 55072 9

**Client.java**

WELCOME 1856 id 1

WELCOME 832 id 0

WELCOME 1152 id 2

WELCOME 2112 id 3

WELCOME 768 id 4

WELCOME 768 id 5

WELCOME 704 id 6

Communication Latency:26

WELCOME 896 id 8

WELCOME 576 id 7

WELCOME 448 id 9

**User Number 50**

**Server.java**

Server Throughput:2

HELLO 127.0.0.1 55074 0

HELLO 127.0.0.1 55075 1

HELLO 127.0.0.1 55076 2

HELLO 127.0.0.1 55077 3

HELLO 127.0.0.1 55078 4

HELLO 127.0.0.1 55079 5

HELLO 127.0.0.1 55080 6

HELLO 127.0.0.1 55081 7

HELLO 127.0.0.1 55082 8

HELLO 127.0.0.1 55083 9

HELLO 127.0.0.1 55084 10

HELLO 127.0.0.1 55085 11

HELLO 127.0.0.1 55086 12

HELLO 127.0.0.1 55087 13

HELLO 127.0.0.1 55088 14

HELLO 127.0.0.1 55089 15

HELLO 127.0.0.1 55090 16

HELLO 127.0.0.1 55091 17

HELLO 127.0.0.1 55092 18

HELLO 127.0.0.1 55093 19

HELLO 127.0.0.1 55094 20

HELLO 127.0.0.1 55095 21

HELLO 127.0.0.1 55096 22

HELLO 127.0.0.1 55097 23

HELLO 127.0.0.1 55098 24

HELLO 127.0.0.1 55099 25

HELLO 127.0.0.1 55100 26

HELLO 127.0.0.1 55101 27

HELLO 127.0.0.1 55102 28

HELLO 127.0.0.1 55103 29

HELLO 127.0.0.1 55104 30

HELLO 127.0.0.1 55105 31

HELLO 127.0.0.1 55106 32

HELLO 127.0.0.1 55107 33

HELLO 127.0.0.1 55108 34

HELLO 127.0.0.1 55109 35

HELLO 127.0.0.1 55110 36

HELLO 127.0.0.1 55111 37

HELLO 127.0.0.1 55112 38

HELLO 127.0.0.1 55113 39

HELLO 127.0.0.1 55114 40

HELLO 127.0.0.1 55115 41

HELLO 127.0.0.1 55116 42

HELLO 127.0.0.1 55117 43

HELLO 127.0.0.1 55118 44

HELLO 127.0.0.1 55119 45

HELLO 127.0.0.1 55120 46

HELLO 127.0.0.1 55121 47

HELLO 127.0.0.1 55122 48

HELLO 127.0.0.1 55123 49

**Client.java**

WELCOME 1280 id 0

WELCOME 960 id 1

WELCOME 2112 id 2

WELCOME 1280 id 3

WELCOME 1344 id 4

WELCOME 1280 id 5

WELCOME 1856 id 6

WELCOME 512 id 7

WELCOME 2112 id 8

WELCOME 1344 id 9

WELCOME 768 id 10

WELCOME 2048 id 11

WELCOME 2112 id 12

WELCOME 1984 id 13

WELCOME 384 id 14

WELCOME 960 id 15

WELCOME 448 id 16

WELCOME 1984 id 17

WELCOME 576 id 18

WELCOME 2112 id 19

WELCOME 704 id 20

WELCOME 2240 id 21

WELCOME 1024 id 22

WELCOME 1152 id 23

WELCOME 896 id 24

WELCOME 1152 id 25

WELCOME 1152 id 26

WELCOME 320 id 27

WELCOME 1344 id 28

WELCOME 1536 id 29

WELCOME 2304 id 30

WELCOME 2048 id 31

WELCOME 896 id 32

WELCOME 2112 id 33

WELCOME 1088 id 34

WELCOME 2048 id 35

WELCOME 1472 id 36

WELCOME 2112 id 37

WELCOME 1600 id 38

WELCOME 640 id 39

WELCOME 1920 id 40

WELCOME 2304 id 41

WELCOME 1792 id 42

WELCOME 1152 id 43

WELCOME 1600 id 44

WELCOME 2304 id 45

WELCOME 2240 id 46

WELCOME 576 id 47

WELCOME 1344 id 48

Communication Latency:59

WELCOME 1664 id 49