

Session 1 - 2021-05-06 22:24-22:58

# Δίκτυα Υπολογιστών Ι

Ρόντος Έκτορας – Θωμάς  
ΑΕΜ: 9477

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## G1 – Echo Packet Response Test (2021-05-06 22:24)

Started at: 2021-05-06 22:24:24:0

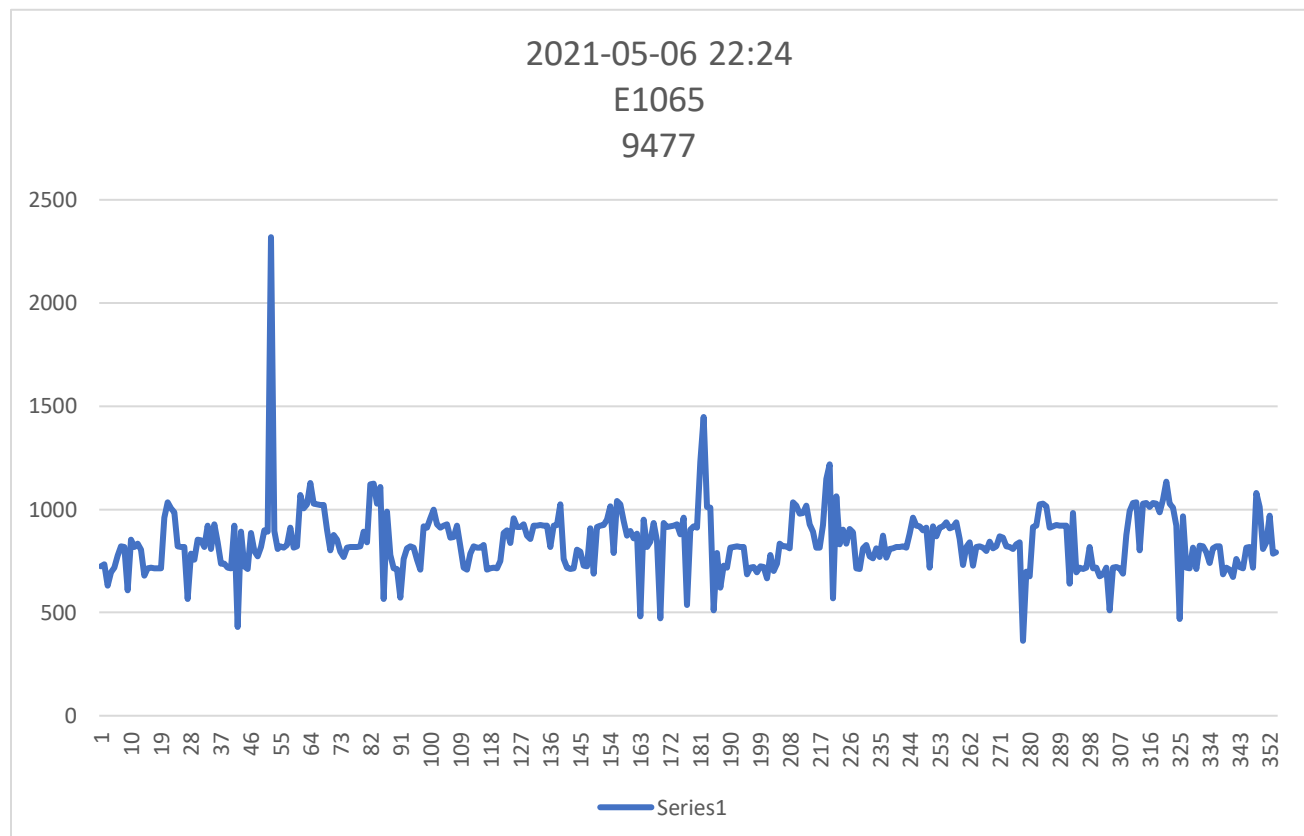
Finished at: 2021-05-06 22:29:24:4

Echo request code: E1065

Modem Speed: 1000kbps

Students online: 4

Total packets received: 354



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## G1' – Echo Packet Response Test 2 (2021-05-06 22:37)

Started at: 2021-05-06 22:37:29:5

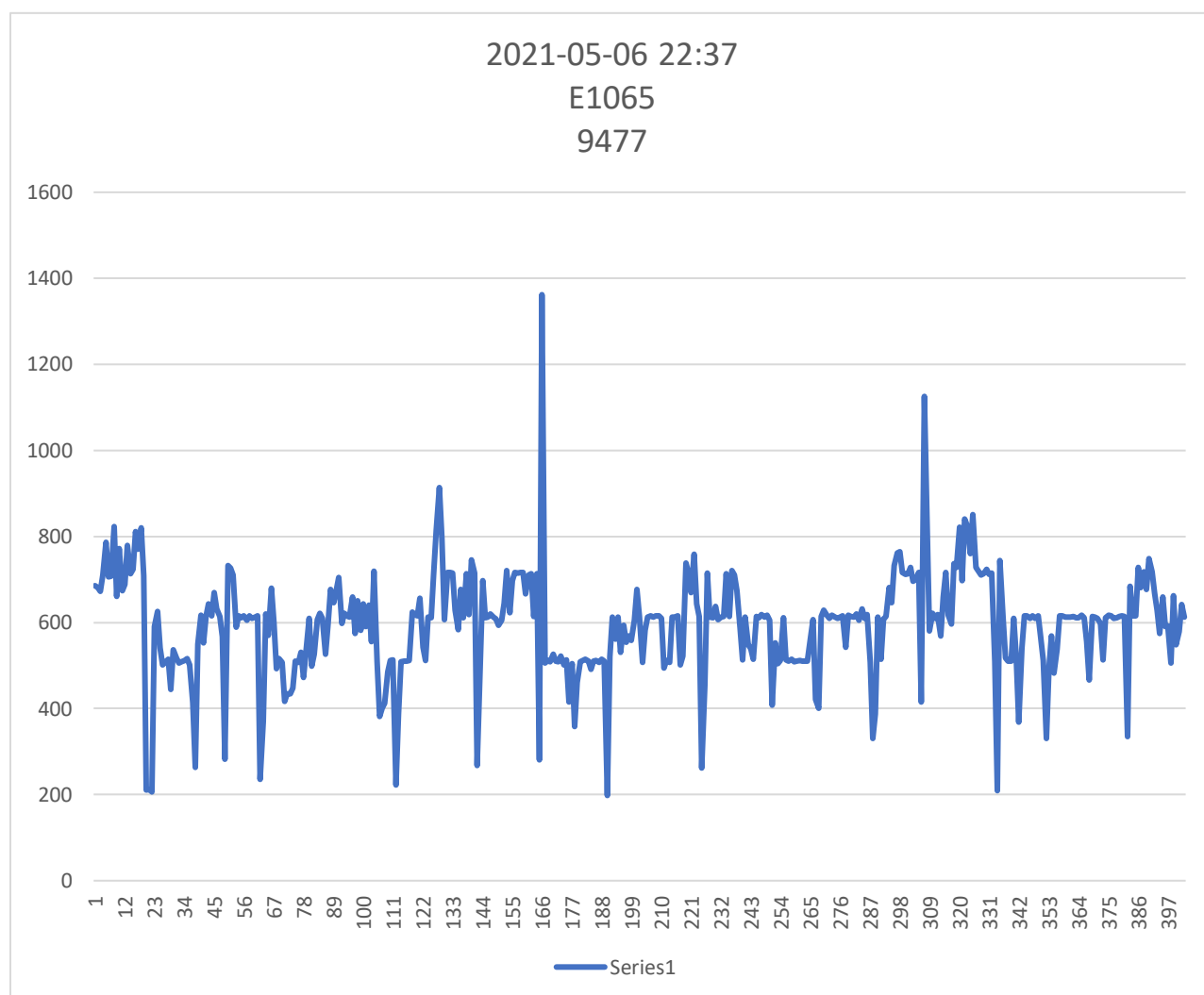
Finished at: 2021-05-06 22:41:29:9

Echo request code: E1065

Modem Speed: 2000kbps

Students online: 3

Total packets received: 403



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## G2 – ARQ Response Test (2021-05-06 22:52)

Started at: 2021-05-06 22:52:10:7

Finished at: 2021-05-06 22:57:10:8

ACK result code: Q0185

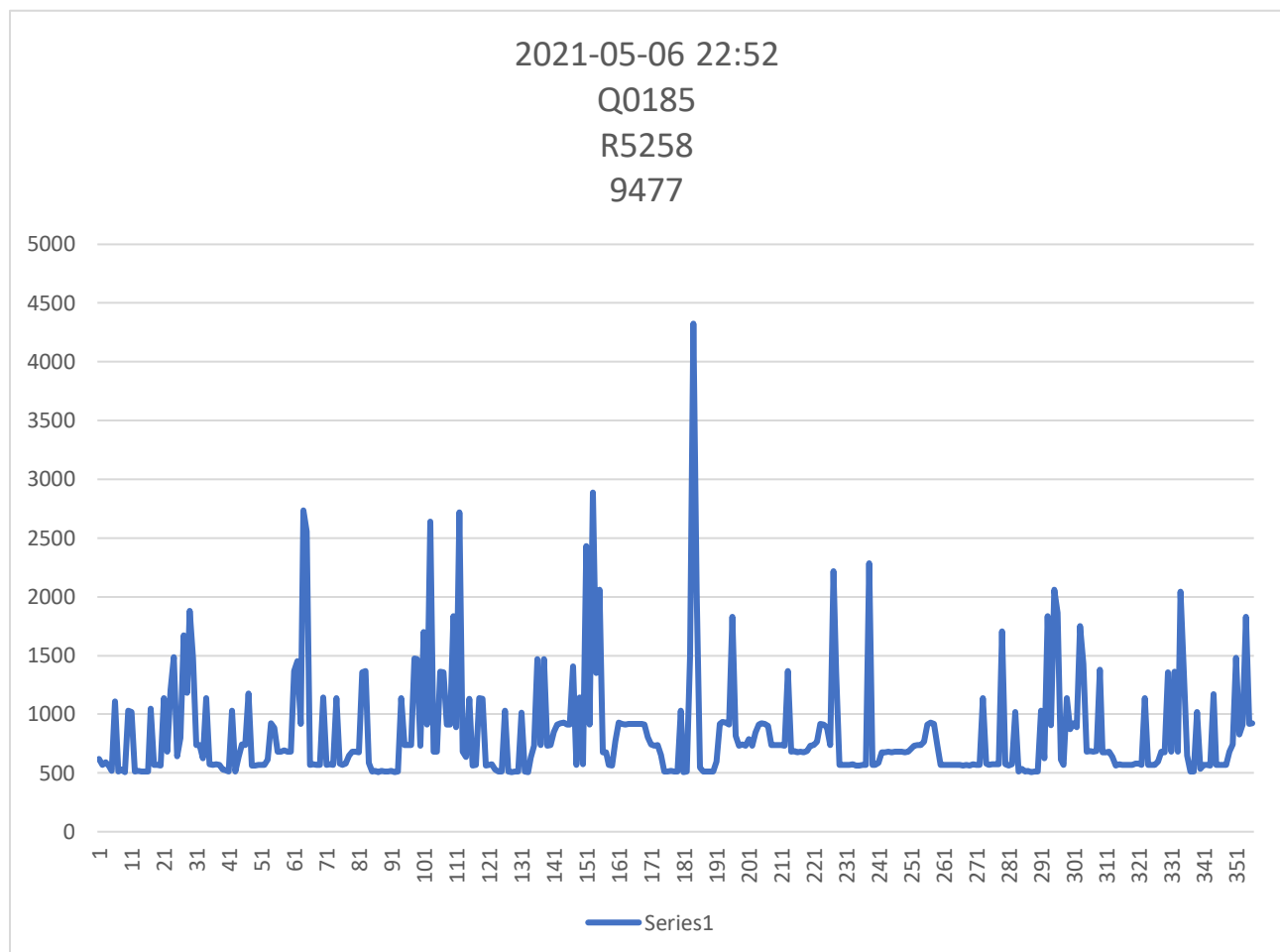
NACK result code: R5258

Modem Speed: 1000kbps

Students online: 3

Total packets received correctly: 356

Total packets received incorrectly: 89



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## G2' – ARQ Response Test 2 (2021-05-06 22:58)

Started at: 2021-05-06 22:58:16:2

Finished at: 2021-05-06 23:03:16:3

ACK result code: Q0185

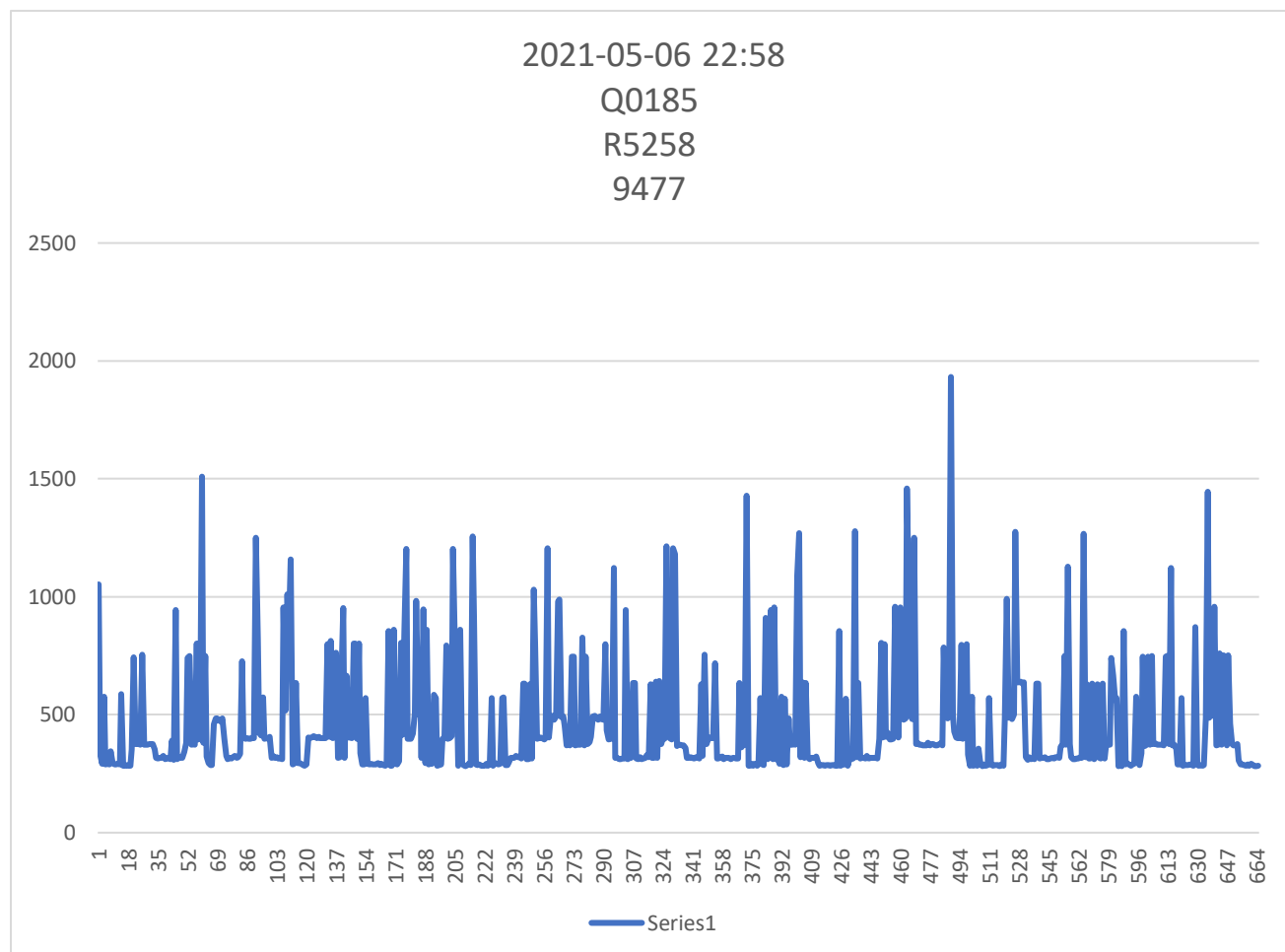
NACK result code: R5258

Modem Speed: 2000kbps

Students online: 3

Total packets received correctly: 665

Total packets received incorrectly: 189



## G3 – Retransmissions probability distribution (2021-05-06 22:52)

Started at: 2021-05-06 22:52:10:7

Finished at: 2021-05-06 22:57:10:8

ACK result code: Q0185

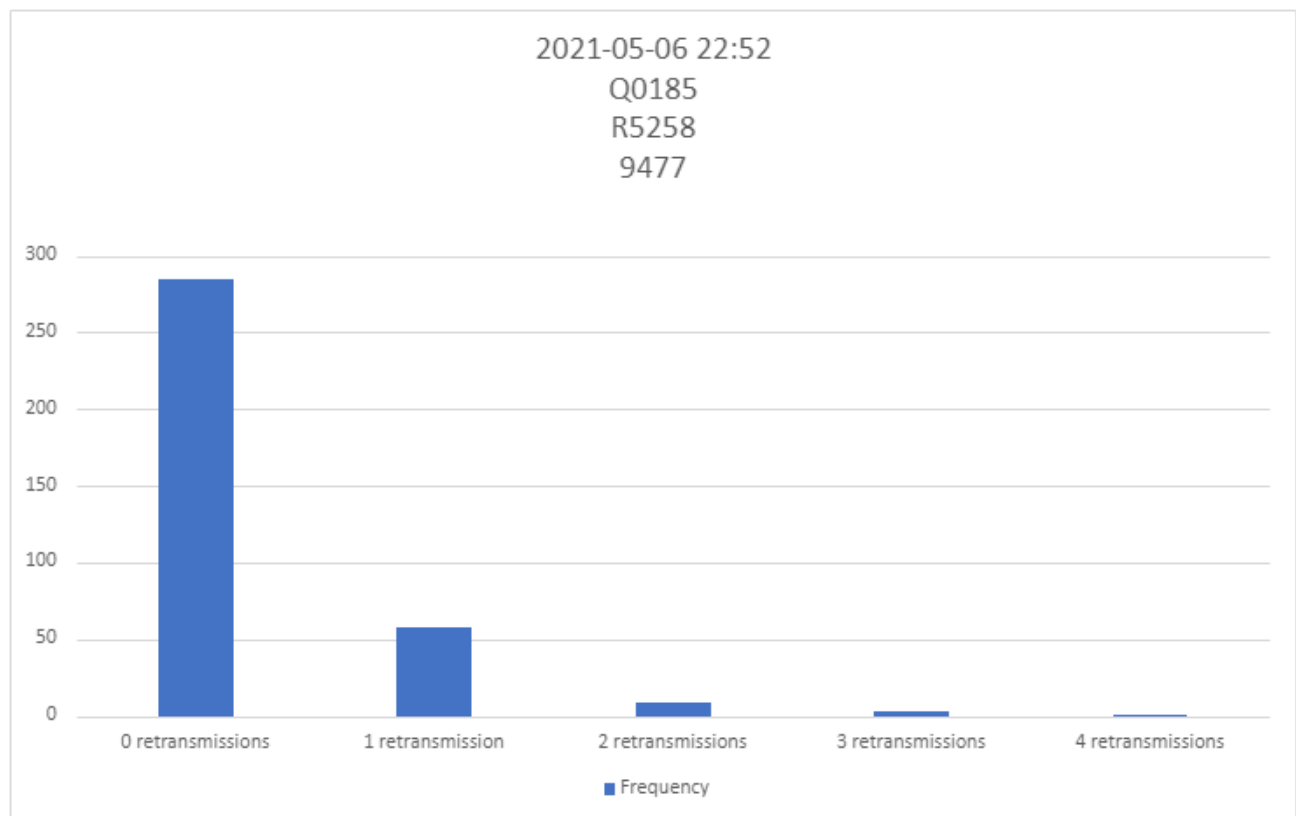
NACK result code: R5258

Modem Speed: 1000kbps

Students online: 3

Total packets received correctly: 356

Total packets received incorrectly: 89



## G3' – Retransmissions probability distribution 2 (2021-05-06 22:58)

Started at: 2021-05-06 22:58:16:2

Finished at: 2021-05-06 23:03:16:3

ACK result code: Q0185

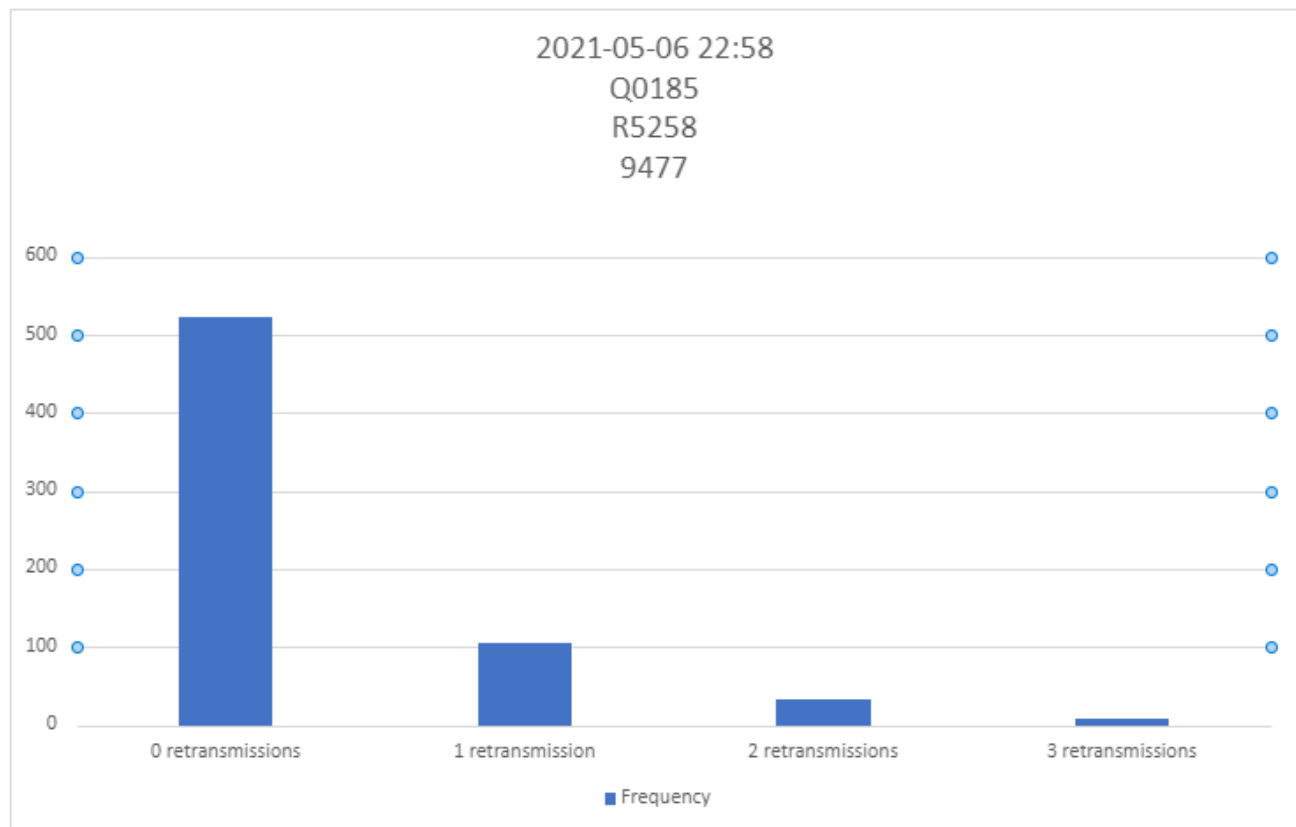
NACK result code: R5258

Modem Speed: 2000kbps

Students online: 3

Total packets received correctly: 665

Total packets received incorrectly: 189



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E1 – Image without errors (2021-05-06 22:43)

Started at: 2021-05-06 22:43:37:8

Finished at: 2021-05-06 22:43:52:5

Image request code: M7185



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## E2 – Image with errors (2021-05-06 22:44)

Started at: 2021-05-06 22:44:56:1

Finished at: 2021-05-06 22:45:13:1

Image request code: G6708





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M1 – GPS traces (2021-05-06 22:47)

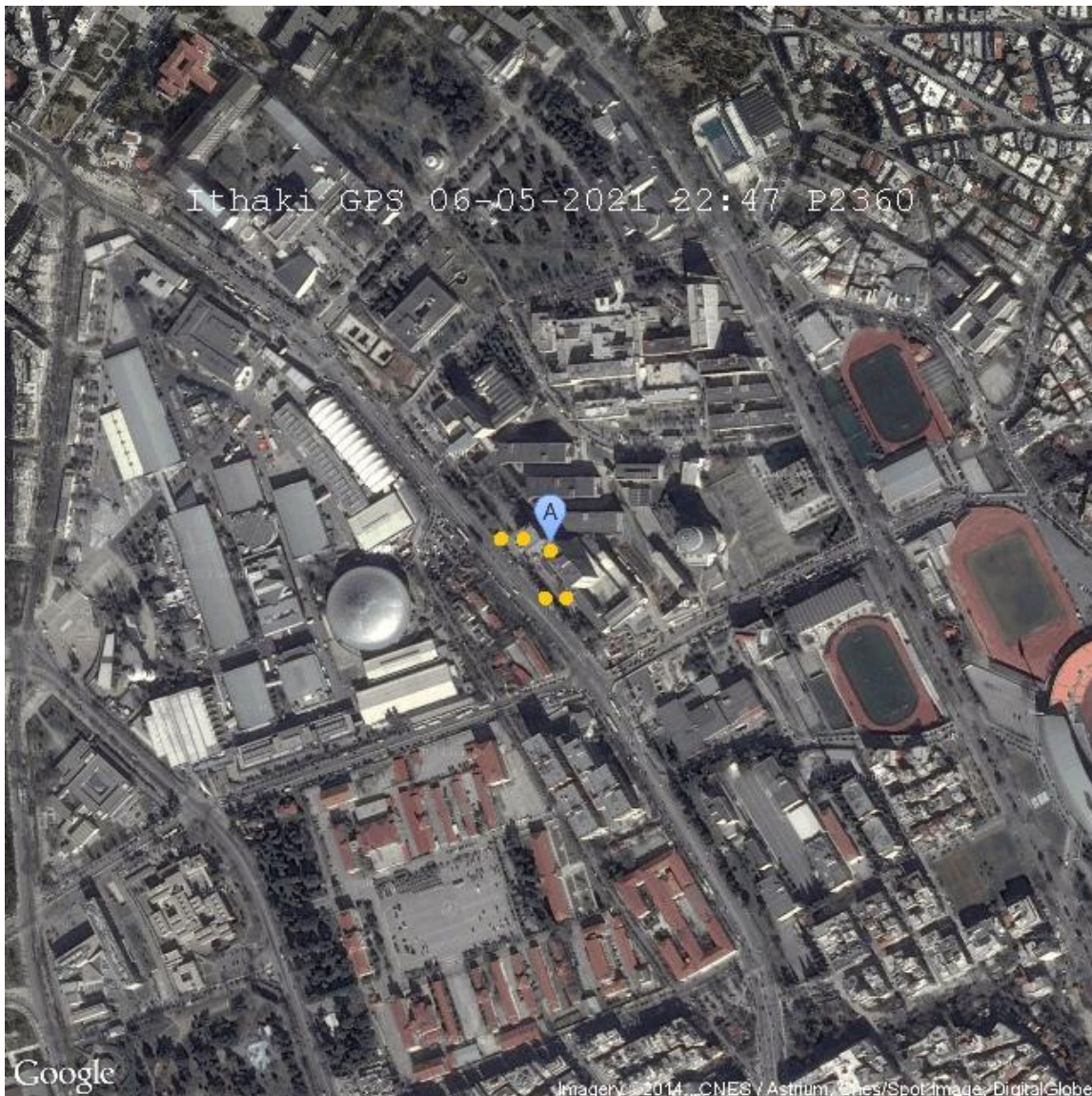
Started at: 2021-05-06 22:47:47:7

Finished at: 2021-05-06 22:48:12:1

GPS request code: P2360

Follow-up code: R=1000099

Time between traces: 20s





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M1' – GPS traces 2 (2021-05-06 22:49)

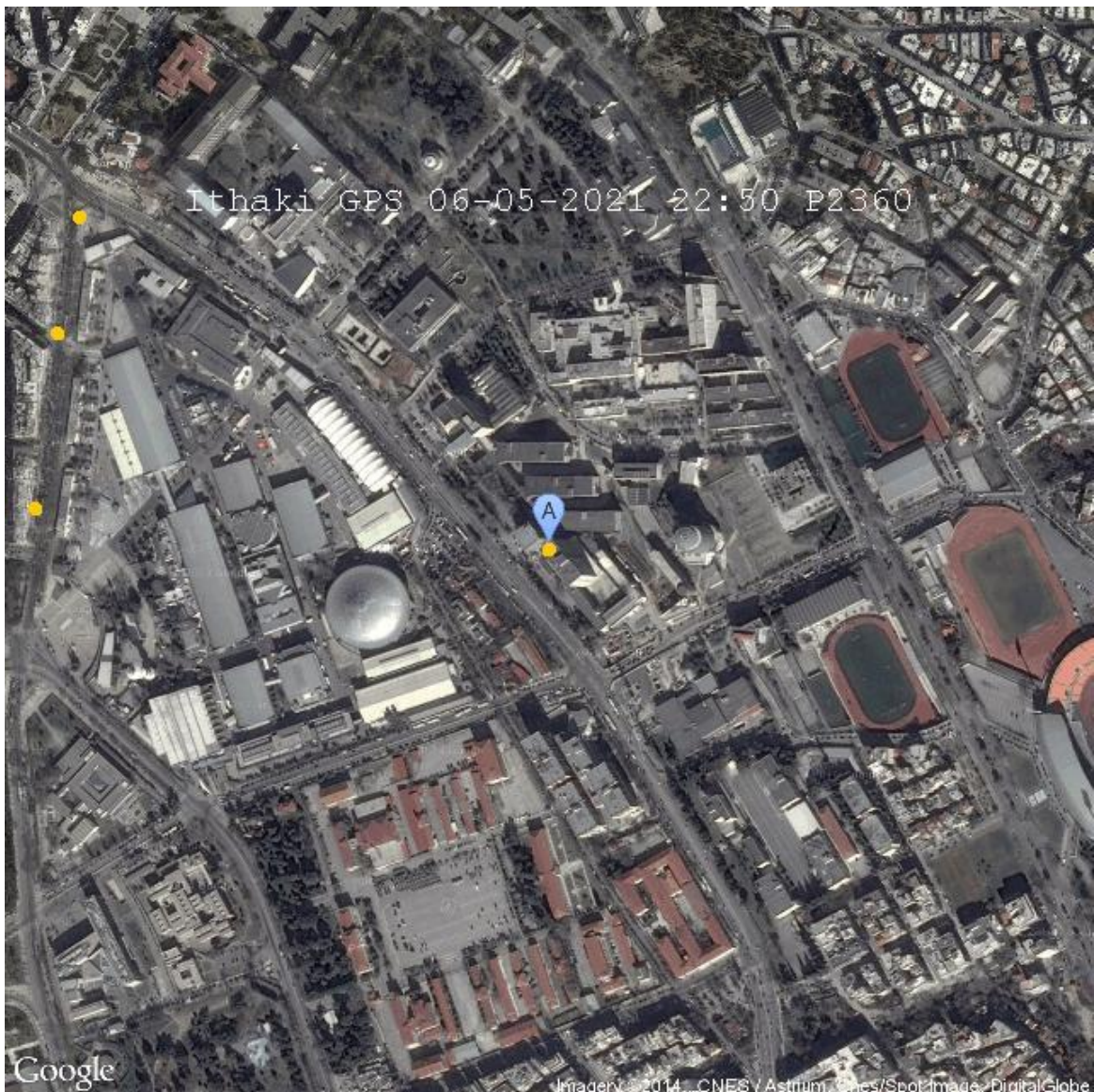
Started at: 2021-05-06 22:49:59:1

Finished at: 2021-05-06 22:50:24:2

GPS request code: P2360

Follow-up code: R=1050099

Time between traces: 20s



## Υπολογισμοί BER

Θα χρησιμοποιήσω τον τύπο:  $P = (1 - \text{BER})^L$ , όπου  $P = \text{ack} / (\text{ack} + \text{nack})$  και  $L$  το μήκος του μηνύματος σε bits.

$$G2, G3: \text{BER} = 1 - (356 / (356 + 89))^{(1/128)} = 1.7417 \times 10^{-3}$$

$$G2', G3': \text{BER}' = 1 - (665 / (665 + 189))^{(1/128)} = 1.3743 \times 10^{-3}$$