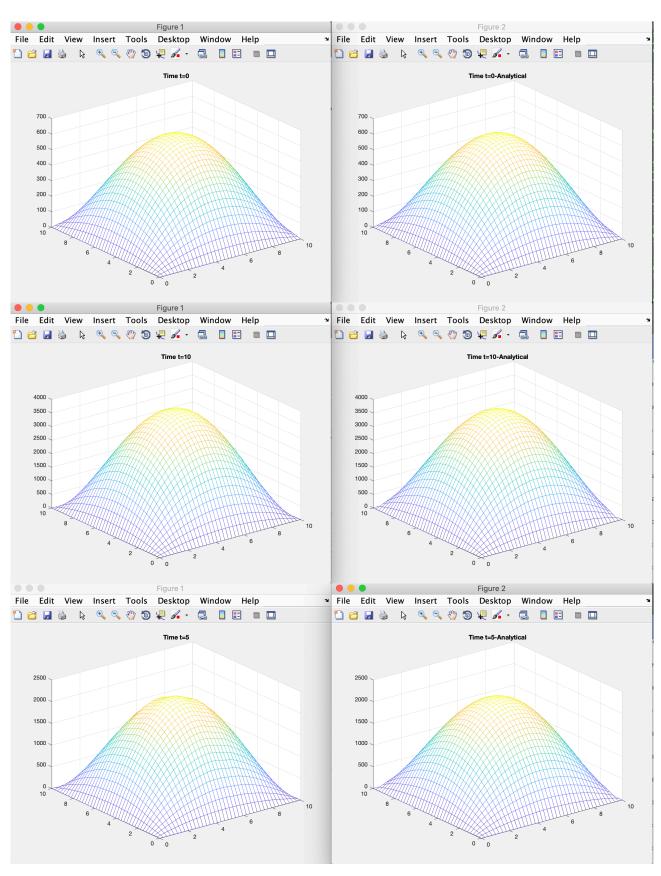
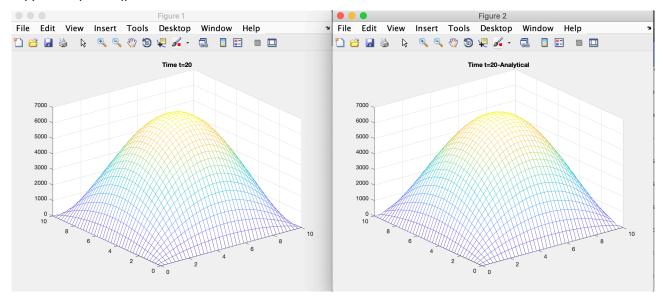
OpenMP-Project 2020

ΣΕΙΡΙΑΚΟΣ ΚΩΔΙΚΑΣ



Αγγελίτση Σωτηρία



OPENMP

Threads	Χρόνοι Εκτέλεσης (sec)	t (sec)	$U(N_x/2,N_y/2)$
1	0.02195299999584676698	0	624.178442
2	0.02256499999930383638	5	2173.339271
4	0.02265099999931408092	10	3743.018786
8	0.02549700000236043707	20	6861.859129

$$parallel \ \ speedup_1 = 0.02195299999584676698$$

$$parallel \ \ speedup_{1\rightarrow 2} = \frac{0.02195299999584676698}{0.02256499999930383638} = 0.972878351275162840$$

$$parallel \ \ speedup_{1\rightarrow 3} = \frac{0.02195299999584676698}{0.02265099999931408092} = 0.969184583308090114$$

$$parallel \ \ speedup_{1\rightarrow 4} = \frac{0.02195299999584676698}{0.02549700000236043707} = 0.861003255042335294$$

$$parallel \ \ efficiency_1 = 100 \%$$

$$parallel \ \ efficiency_2 = \frac{parallel \ \ speedup_{1\rightarrow 2}}{2} = \frac{0.972878351275162840}{2} \cdot 100 \% = 48.6439 \%$$

$$parallel \ \ efficiency_3 = \frac{parallel \ \ speedup_{1\rightarrow 3}}{4} = \frac{0.969184583308090114}{4} \cdot 100 \% = 24.2296 \%$$

$$parallel \ \ efficiency_4 = \frac{parallel \ \ speedup_{1\rightarrow 4}}{8} = \frac{0.861003255042335294}{8} \cdot 100 \% = 10.7625 \%$$

