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Coding Project Report

Diffusion Equation

**Abstract**

When it comes to gathering solutions for two dimensional diffusion equations there are a few routes that are available, each with their own degrees of stability and facility. In the problem at hand there are given boundary conditions along with a domain of interest, with this there are time integration methods to solve the problem. For this specific report there will be two different types of time integration methods that will be used and compared, the explicit method and the implicit method. The explicit method involves a simpler approach which deals with calculating the state of a system at a forward time rather than the current time. furthermore, the explicit method is named such due to the fact that the u, n+1, j is explicitly given by the central difference formula for second order derivatives. The explicit method will be compared to the implicit method. The implicit method is a time integration approach where the u, n+1, j term cannot be obtained independently but must be solved using a tri-diagonal system. The implicit method in general finds a solution by solving the equation of the system at the current as well as a future state. When comparing the two in the report it will be evident that there are key differences in stability, computational difficulty and overall results.

**Mathematical Statement of the Problem**

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Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNlcmdpbwAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzYxAACSkgACAAAAAzYxAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 1.**

**Discretization of the Mathematical Problem**

**![A screenshot of a cell phone

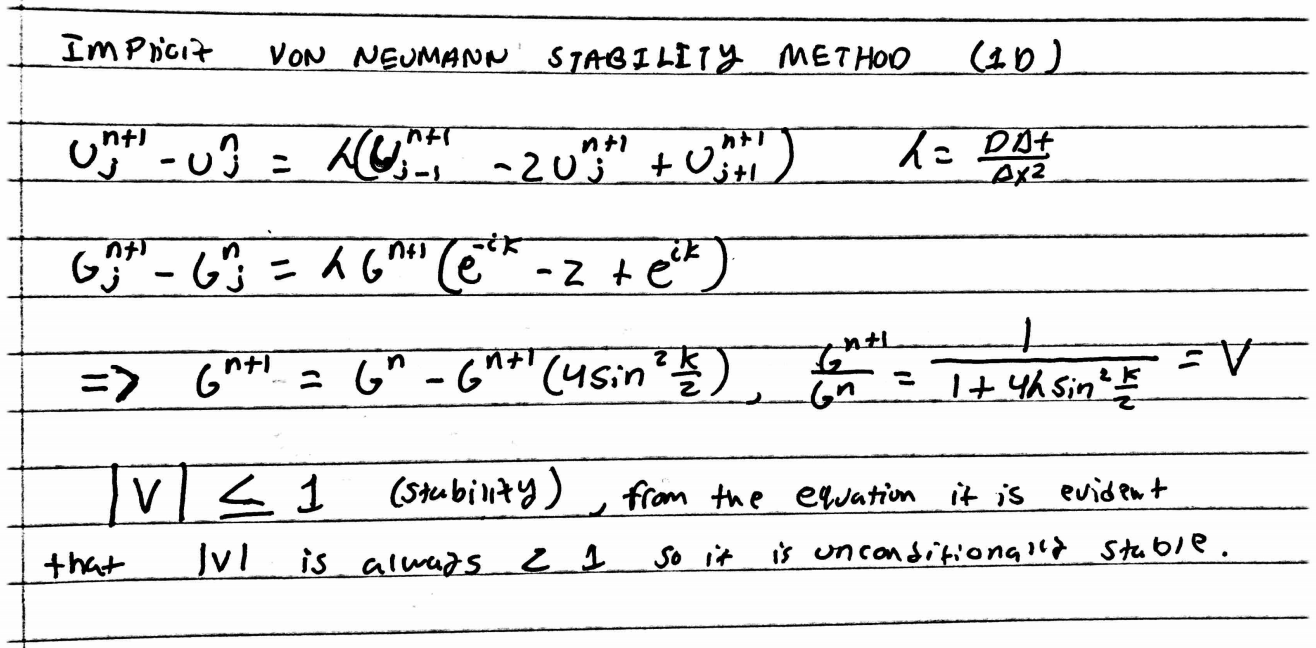
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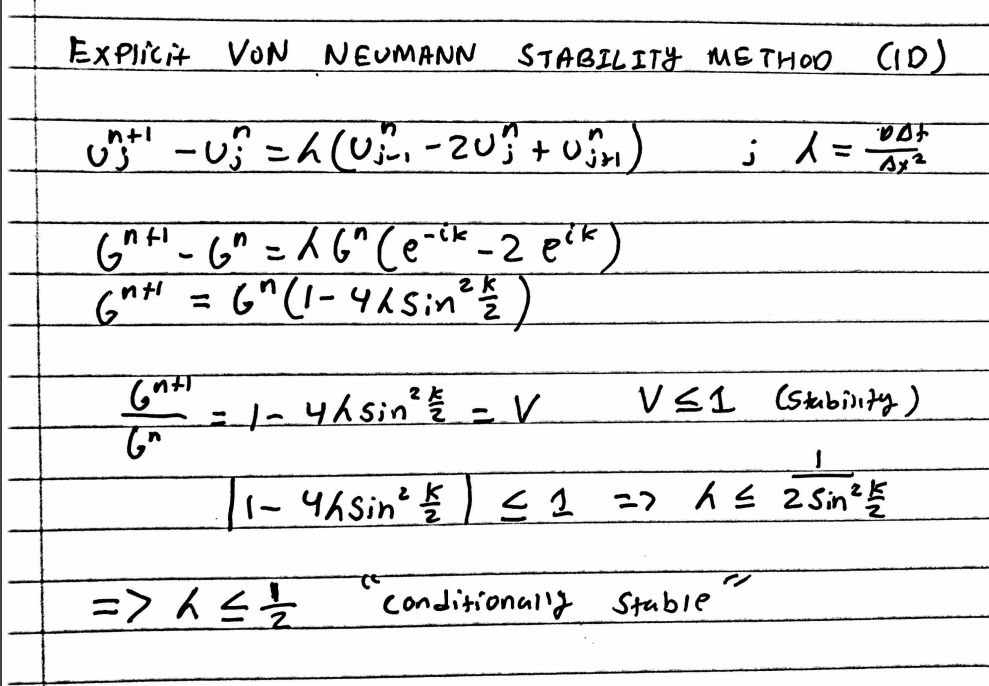
**Figure 2.**

Figure 2 represents the explicit discretization of the two dimensional diffusion equation as well as the implicit discretization.

**Description of Numerical Method**

For this Project the implicit and explicit schemes are being used. An accurate description of the numerical method for the explicit scheme is when a calculation can be made of dependent variables in terms of the known quantities. While an implicit scheme is when the dependent variables are already defined by systems of equations and a tridiagonal matrix or an iterative process is required to get the desired solution. Now in terms of error and results, theoretically both should provide the same order of error and the same result, where the main difference lies is the stability issue as well as the facility of the computation. In the figure below the proof of how the explicit scheme is only conditionally stable proves it to be less reliable in comparison to the implicit scheme which is unconditionally stable.





**Technical Specifications of Computer**

The following is a full technical specification report on the computer used for this report.

Processors

-------------------------------------------------------------------------

Number of sockets 1

Number of threads 4

APICs

-------------------------------------------------------------------------

Socket 0

-- Core 0 (ID 0)

-- Thread 0 0

-- Thread 1 1

-- Core 1 (ID 1)

-- Thread 2 2

-- Thread 3 3

Timers

-------------------------------------------------------------------------

ACPI timer 3.580 MHz

Perf timer 2.648 MHz

Sys timer 1.000 KHz

Processors Information

-------------------------------------------------------------------------

Socket 1 ID = 0

Number of cores 2 (max 2)

Number of threads 4 (max 4)

Name Intel Core i5 7200U

Codename Kaby Lake-U/Y

Specification Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz

Package (platform ID) Socket 1356 FCBGA (0x7)

CPUID 6.E.9

Extended CPUID 6.8E

Core Stepping B0

Technology 14 nm

TDP Limit 15.0 Watts

Tjmax 100.0 °C

Core Speed 2493.9 MHz

Multiplier x Bus Speed 25.0 x 99.8 MHz

Base frequency (cores) 99.8 MHz

Base frequency (ext.) 99.8 MHz

Stock frequency 2700 MHz

Max frequency 3100 MHz

Instructions sets MMX, SSE, SSE2, SSE3, SSSE3, SSE4.1, SSE4.2, EM64T, VT-x, AES, AVX, AVX2, FMA3

Microcode Revision 0x84

L1 Data cache 2 x 32 KBytes, 8-way set associative, 64-byte line size

L1 Instruction cache 2 x 32 KBytes, 8-way set associative, 64-byte line size

L2 cache 2 x 256 KBytes, 4-way set associative, 64-byte line size

L3 cache 3 MBytes, 12-way set associative, 64-byte line size

Max CPUID level 00000016h

Max CPUID ext. level 80000008h

Cache descriptor Level 1, D, 32 KB, 2 thread(s)

Cache descriptor Level 1, I, 32 KB, 2 thread(s)

Cache descriptor Level 2, U, 256 KB, 2 thread(s)

Cache descriptor Level 3, U, 3 MB, 16 thread(s)

FID/VID Control yes

IBRS supported, disabled

IBPB supported

STIBP supported, disabled

RDCL\_NO no

IBRS\_ALL not supported

Turbo Mode supported, disabled

Max non-turbo ratio 27x

Max turbo ratio 31x

Max efficiency ratio 4x

O/C bins none

Ratio 1 core 31x

Ratio 2 cores 31x

Ratio 3 cores 31x

Ratio 4 cores 31x

IA Voltage Mode PCU adaptive

IA Voltage Offset 0 mV

GT Voltage Mode PCU adaptive

GT Voltage Offset 0 mV

LLC/Ring Voltage Mode PCU adaptive

LLC/Ring Voltage Offset 0 mV

Agent Voltage Mode PCU adaptive

Agent Voltage Offset 0 mV

TDP Level 15.0 W @ 25x

TDP Level 7.5 W @ 8x

TDP Level 25.0 W @ 27x

Temperature 0 43 degC (109 degF) (Package)

Temperature 1 43 degC (109 degF) (Core #0)

Temperature 2 43 degC (109 degF) (Core #1)

Voltage 0 0.85 Volts (VID)

Voltage 1 +0.00 Volts (IA Offset)

Voltage 2 +0.00 Volts (GT Offset)

Voltage 3 +0.00 Volts (LLC/Ring Offset)

Voltage 4 +0.00 Volts (System Agent Offset)

Power 00 3.13 W (Package)

Power 01 1.02 W (IA Cores)

Power 02 0.06 W (GT)

Power 03 2.05 W (Uncore)

Power 04 0.60 W (DRAM)

Clock Speed 0 2493.90 MHz (Core #0)

Clock Speed 1 2493.90 MHz (Core #1)

Core 0 max ratio 31.0 (effective 25.0)

Core 1 max ratio 31.0 (effective 25.0)

**Results**

*The specifications of the parameters used in both the explicit and implicit simulations are the following:*

Number of nodes: n = 10

Boundary Conditions and given values

ax = 0

ay = 0

bx = 2\*pi

by = 2\*pi

X Axis: x = linspace(ax, bx, n)

Y Axis: y = linspace(ay, by, n)

Simulation Time: time = 1s

Time Step: dt = .1

Spatial step in x: dx = bx/n

Spatial step in y: dy = by/n

Defining fb(y) and gb(y)

for q = 1:n

fb(y) = y(q)\*(by - y(q))^2 ;

gb(y) = ((by - y(q))^2)\*cos((pi\*y(q))/by);

end

C = by\*x; % Reducing for the u(x,y=ay) boundary condition gives this simplified expression

*Evaluate the effect of number of points used for discretization:*

The effect of the number of points in the discretization at first helps with the order of accuracy but at a certain number of points the accuracy is no longer affected and the extreme number of points is wasteful in terms of computational efficiency. Ideally one is looking to keep dt, dx, dy sufficiently small so that the numerical solution closely matches that of the effective equation.

**Explicit Results**



**Figure 3.**

Figure 3 represents the mesh of the solution for the explicit time integration with the given parameters mentioned above. As the figure shows the solution is rather messy and cannot truly be trusted to be accurate.



**Figure 4.**

Figure 4 is the plot of the solution for the explicit time integration, this figure further validates the idea that the integration could have been done incorrectly as the plot is messy and inconclusive.

**Implicit Results**



**Figure 5.**

Figure 5 shows a promising first glance for the mesh of the implicit integration technique. The Figure shows that as you go down the axes the temperature profile increases in value with a slight discrepancy spike on the lower half of the mesh.



**Figure 6.**

Figure 6 is the plot solution for the time integration of the diffusion equation and here is where the results are cleaner and can be shown to have a clean recognizable pattern which could mean that a proper solution has been found using the implicit scheme.

**Grid Convergence Study**



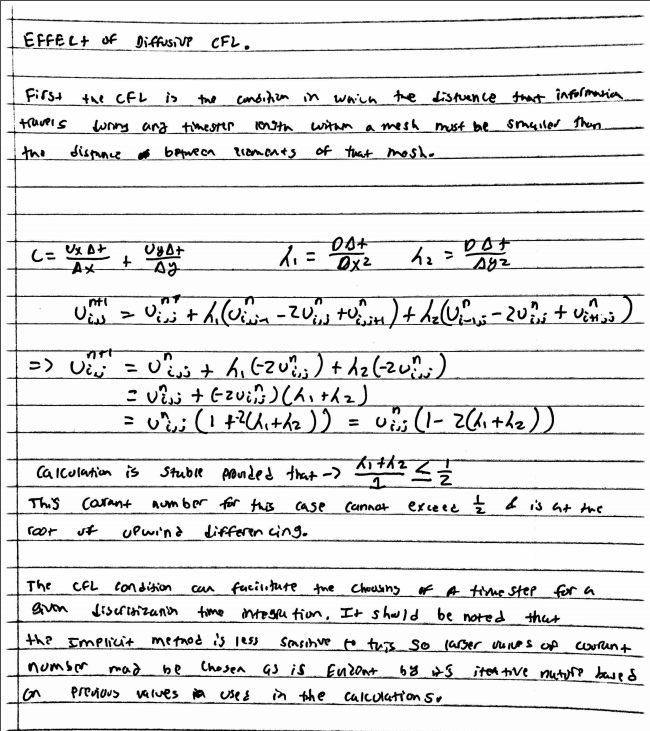
**Figure 7.**



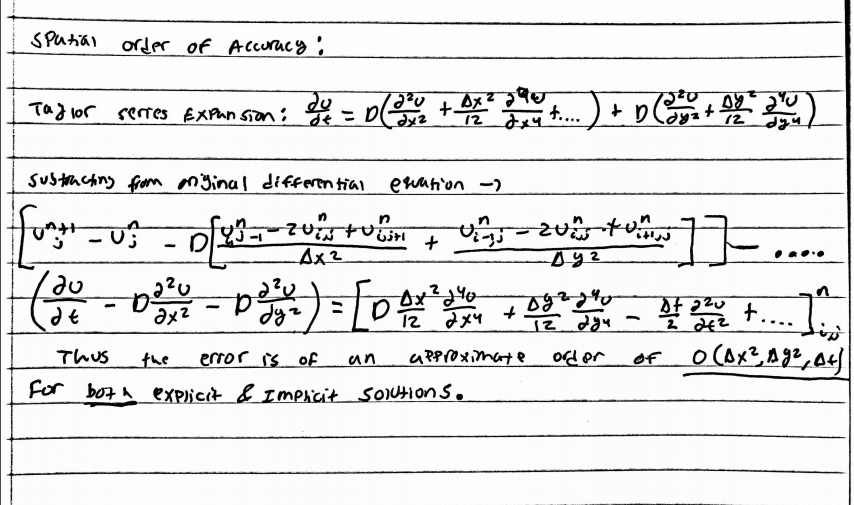
**Figure 8.**

Figures 7 and 8 are the plot demonstration for the implicit solution with the number nodes N increasing by a multiple of 2. Figure 7 is 2N figure 8 is 4N for a total of 40 nodes, as is evident from the graphs there comes a certain point where the overlying picture does not change anymore, and the resulting solution remains the same regardless of the increase of nodes. This is supported by the Taylor Series expansion of derivatives where the in essence taking higher values of h will be less important in influencing the value of f(x+h).

**Effects of Diffusive CFL**



**Verify Spatial Order of Accuracy**



**Comparison**

The achieved results from the code produced are not the same for the implicit and the explicit scheme therefore they are not correct in terms of the theoretical values of what was expected. The implicit scheme however looks to be a cleaner representation of what the explicit scheme was trying to achieve. One advantage of the implicit scheme is that the time step can be manipulated at will since the stability is unconditional.