```
 1    simulation:
 2      case:
 3        workspace:
 4          constants:
 5            - gravity: 0|-9.81
              - dist: 0.1
              - c1: 2.1
 8            - dx: dist*3
 9          variables:
              - dt: 0.001
              - T: 0
12          particle_system:
13            domain:
14              cell_size: c1|c1/2
15              minimum: -100|-20
16              maximum: 100|10
17              boundary: periodic|symmetric
1             grid:
1               gid: 0
2               gpos: -0.5|-1
21              gsize: 2|1
22              goffset: 0|0
23              gip_dist: dx|dx
24            grid:
25              gid: 1
26              file: nodes.txt
27          fields:
28            - f1: 0
29            - f2: 1000|500
30            - velocity: 0|0
31        equations:
32          - time: T=T+dt
            - equation1: f1=interaction1(r,c1,delta)^2+sin(f2)
              condition: eq(gid,1)
35          - equation2: f2=f1*velocity-interaction2(r,dx,velocity)
36      parameter_space:
37        simulated_time: 50
38        print_interval: 0.1
39        confirm_on_exit: 0
40        output_format: BINARY
41        file_start: 0
```

Constants → lines 4–8

Variables → lines 9–11

Particle system → lines 12–26

Domain → lines 13–17

Particles on a grid → lines 18–23

Particles from a file → lines 24–26

Fields → lines 27–30

UDE's → lines 31–35

Simulation parameters → lines 36–41