

***parallel code generator***  
***(OpenMP directives)***

```
graph TD; A["parallel code generator (OpenMP directives)"] --> B["vector code generator (loop separation)"]; B --> C["scalar code generator"]; style A fill:#00bfff,stroke:#00bfff,stroke-width:2px; style B fill:#ffff00,stroke:#ffff00,stroke-width:2px; style C fill:#f4a460,stroke:#f4a460,stroke-width:2px;
```

***vector code generator***  
***(loop separation)***

***scalar code generator***