

1. "Message in queue" 1400: most recent messages received and still to be dealt with;
2. "Message out queue" 1405: messages to be sent out;
- 5 3. "Message handler summary" 1410: a summary of the actions taken in response to incoming messages, for example, to what module of the agent has the message been dispatched for detailed processing;
4. "Co-ordination graph" 1415: visually depicts the dynamic state of execution of the co-ordination engine so as to visualise the progress of the realisation of some goal. Where there are multiple goals the agent is trying to achieve, the user can select a particular one in order to visualise its progress. As each node 1420 of the graph is running, it shows GREEN. If that node fails, it shows RED;
- 10 5. "Execution monitor summary" 1425: a diary detailing the tasks the agent has committed itself to performing, and the current status of those tasks (i.e. waiting, running, completed or failed) e.g. the monitor might indicate a task which has failed to start because of inadequate resources (for example, results expected from another agent might never arrive or arrive too late), or it might flag an executing task which has been stopped because it over-ran its scheduled allocation of processor time;
- 15 6. "Resource database summary" 1430: summary of the resources the agent manages. It also shows which are free, which have been allocated, and to whom; and
- 20 7. "Commitment table" 1435: visual depiction of how tasks have been scheduled. This is a summary of the results of monitoring executing tasks or tasks scheduled to start execution; eg the monitor might indicate a task which has failed to start because of inadequate resources or it might flag an executing task which has been stopped because it overran its scheduled allocation of processor time. As shown, Agent C is firmly committed to the task MakeComputer at time 4.
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The micro tool provides a user with a finer look at the internal processing of an agent and has obvious debugging potential. For example, the flagging of executing tasks which have been stopped because they over-ran their allocated