Verification Plan

We will implement 2 sub-models:

* *Arbiter* - manages the requests and grants of the users, arange and transfers the data to the processor.
* *Processor* - calculates the desired mode (threshold or brightness) and transfers it to the output master.

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|  | **What to verify?** | **How to verify?** |
| Arbiter | * Starvation between the users * Grant only after master is ready * Grant only after request * No 2 grants at once * Priority * Sticky Mode |  |
| Processor | * All modes working as expected * Raising done as expected |  |
| Overall |  |  |

Assertions:

* assertions on resets
* biBitCount = 24
* Mode != 11

Assumptions:

* Communications are continues, If one file is being transferred in or out, it's assumed that it is transferred continuously from start till end.
* File format is legal 24 bit bmp file.