BOX MODE #3
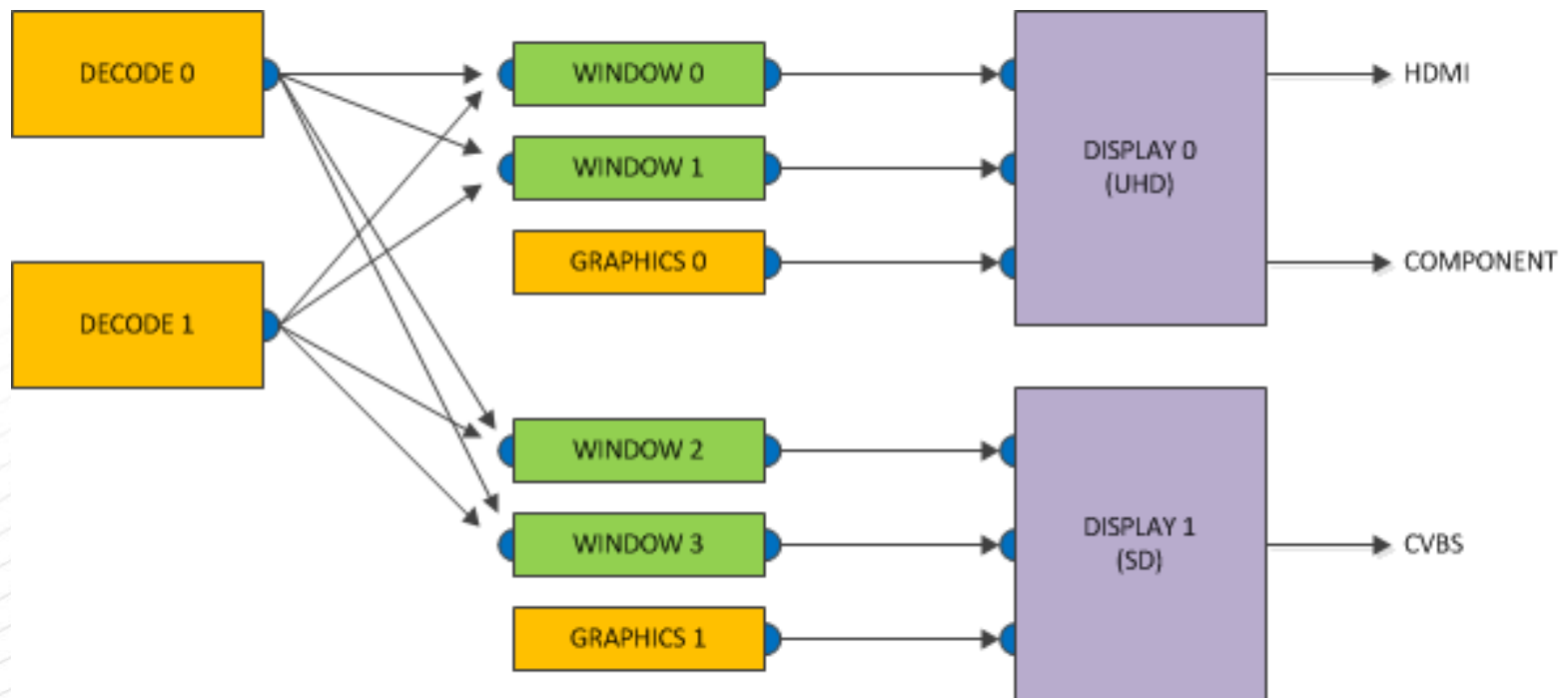
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BOX MODE #3 – SUMMARY

- **Required memory speed: 2x 32-bit DDR3-2133**

- **Features**
  - Supports single-source mode:
    - 3840x2160p60 10-bit HEVC decode / 1080p60 8-bit AVC decode
    - MAIN (no PIP).
  - Supports MAIN + PIP mode:
    - Two decoders limited to 1080p60 10-bit HEVC / 1080p30 8-bit AVC
    - MAIN + PIP display
  - UHD + SD simultaneous output

POSSIBLE VIDEO ROUTINGS

SOURCE LIMITATIONS

- **For each source, you may toggle between any of the provided options.**
  - Only one option enabled at a given time.

- **Decode 0**
  - Single source mode:
    - 3840x2160p60 10-bit HEVC
    - 1080p60 8-bit AVC
  - MAIN + PIP mode:
    - 1080p60 10-bit HEVC
    - 1080p30/60i 8-bit AVC

- **Decode 1**
  - Cannot be enabled when decode 0 is in single-source mode (i.e. decoding 3840x2160p)
  - MAIN + PIP mode:
    - 1080p60 10-bit HEVC
    - 1080p30/60i 8-bit AVC

- **Graphics 0 (UHD)**
  - 1080p60 32-bit ARGB

- **Graphics 1 (SD)**
  - 480p60 32-bit ARGB
  - 576p60 32-bit ARGB

WINDOW LIMITATIONS

- **Window 0 (MAIN - UHD)**
  - Up to full-screen display with smooth scaling
  - 10-bit support
  - 1080i60 10-bit de-interlacing

- **Window 1 (PIP – UHD)**
  - Up to full-screen display with smooth scaling
  - 1080i60 8-bit de-interlacing

- **Window 2 (MAIN - SD)**
  - Up to full-screen display
  - 8-bit support

- **Window 2 (PIP - SD)**
  - Up to full-screen display
  - 8-bit support

DISPLAY AND ENCODE LIMITATIONS

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- **Display 0 (UHD)**
  - 3840x2160p60 12-bit 4:2:0 (HDMI)
  - 3840x2160p60 12-bit 4:2:2 (HDMI)
  - 3840x2160p60 8-bit 4:4:4 (HDMI)
  - 1920x1080p60 (component)
  - Only one display format at a time
    - If you want 1080p60 component, HDMI also needs to be 1080p60.

- **Display 1 (SD)**
  - 480i60 (CVBS)
  - 576i50 (CVBS)