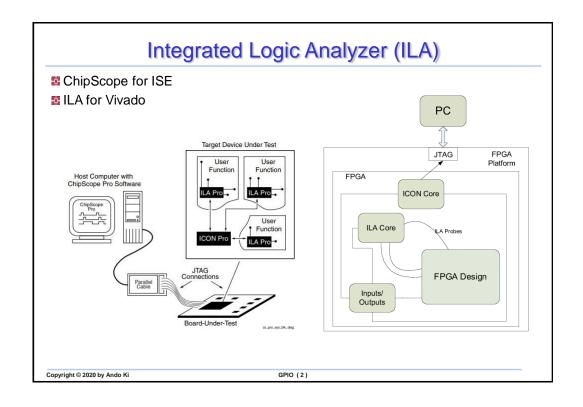
Integrated Logic Analyzer (ILA) with GPIO with AMBA APB interface

2020

Ando Ki (adki@future-ds.com)



```
To specify nets to monitor in the source code
prepend following pragma at the line of code.
    (* mark_debug="true" *)
      (* mark_debug="true" *)
                              wire [31:0]
                                                         S_PADDR;
      (* mark debug="true" *) wire
                                                         S PENABLE;
      (* mark_debug="true" *) wire
                                                         S_PWRITE;
      (* mark_debug="true" *) wire [31:0]
                                                        S_PWDATA;
      (* mark_debug="true" *) wire [NUM_PSLAVE-1:0]
                                                        S_PSEL;
      (* mark_debug="true" *) wire [31:0]
                                                        S_PRDATA[0:NUM_PSLAVE-1];
                               `ifdef AMBA APB3
      (* mark debug="true" *) wire [NUM PSLAVE-1:0]
                                                         S PREADY;
      (* mark debug="true" *) wire [NUM PSLAVE-1:0]
                                                        S PSLVERR;
                               endif
                               `ifdef AMBA_APB4
      (* mark debug="true" *) wire [ 3:0]
                                                         S PSTRB;
      (* mark_debug="true" *) wire [ 2:0]
                                                         S_PPROT;
                               `endif
      (* mark_debug="true" *) wire [31:0]
                                                         S0_PRDATA=S_PRDATA[0];
      (* mark_debug="true" *) wire [31:0]
                                                         S1_PRDATA=S_PRDATA[1];
     (* mark_debug="true" *) wire [31:0]
(* mark_debug="true" *) wire [31:0]
                                                         S2 PRDATA=S PRDATA[2];
                                                         S3 PRDATA=S PRDATA[3];
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                                           GPIO (3)
```

