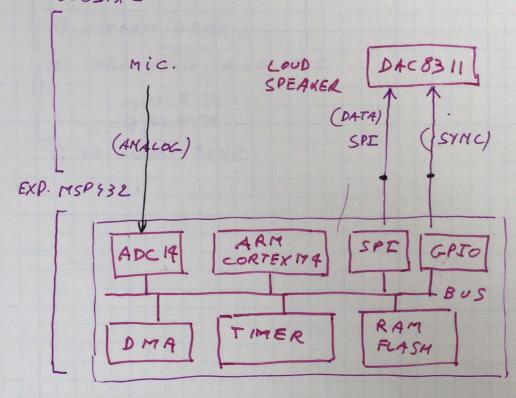
REAL TIME OPERATION IMPUT > TIME CPU Tu Tsuck > TIME OUTPUT > TIME IHARDWARE SHARING FACTOR! HSF = Falk, cpu
Fg SOFTWARE DSP: HSF: 100...1000 HARDWARE DSP: HSF: 1

ARCHITECTURE OF MSA432 + BOOSTYL.



## BASIC ALD OPERATION

- 1) SAMPLE IMPUT VOLTAGE & "SAMPLE TRIGGER"
- 2) CONVERSION
- 3) EMD OF CONVERSION

## BASIC DIA OPERATION

- ( ) ASSERT SYMC.
- 2) TRANSIMIT OVER SPI
  - of HIBYTE b) COBYTE
- (3) DE-ASSERT SYNC.

```
9
```

```
THREE SCHEMES FOR REAL TIME I/O.

(1) POCLED I/O

2) INTERRUPT PRIVEN I/O

(3) DMA DRIVEN I/O
```

POLLED I/O.

WHICE (1) {

MAID CONVERSION TRIGGER-AD();

WHILE (AD-NOT-READY());

INSAMPLE = ADCVAL();

OUT SAMPLE = FUNC OSP (INSAMPLE);

CONSTANT = TAD

CONSTANT . = TDA

11 DIA CONVERSION

ASSERT\_ DAC-SYNCO;

SEND-SPI (HIBYTE (OUTSAMPLE));

SEND-BPI (LOBYTE CONTSAMPLE);

DEASSERT - DA-C-SYNC(S;

TITERATE

TS = THERATE

