```
In [12]: import wavedrom
svg = wavedrom.render("""
{ "assign":[
        ["out",
        ["|",
        ["&", ["~", "a"], "b"],
        ["&", ["~", "b"], "a"]
        ]
      ]
    ]
    ]
] """)
svg
```

<svg baseProfile="full" height="81" id="svgcontent\_0" version="1.1" viewBox="0 0 225 81" width="225" xmlns="http://www.w3.org/2000/svg" Out[12]: xmlns:ev="http://www.w3.org/2001/xml-events" xmlns:xlink="http://www.w3.org/1999/xlink"><defs><style type="text/css"></style></defs><g transform="translate(0.5,0.5)"><g><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /> <rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /></rect class="g width="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /></rect class="grid" height="1" x="0" y="0" /></rect cla x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" 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class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /></rect class="grid" height="1" width="1" width="1" x="0" y="0" /></rect class="grid" height="1" x="0" y="0" /></rect class="grid x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /> <rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" x="0" y="0" /></rect class="grid" height="1" x="0" y="0" y="0" /></rect class="grid" height="1" x="0" y="0" width="1" x="0" y="0" /><rect class="grid" height="1" width="1" x="0" y="0" /></rect class="grid" height="1" width="1" width class="grid" height="1" width="1" x="0" y="0" /><rect class="grid" height="1" width="1" 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class="wire" d="M 160,40 160,40" /></g><path class="wire" d="m 160,40" /></g> 16.0'' > q transform = translate(192.40)'' > title > q transform = translate(192.40)'' > q transform = translate(192.40)'' > title > q transform = translate(192.40)'' > title > q transform = translate(192.40)'' > q transform = translate(192.40)'' > q translate(192<g transform="translate(16,0)"><path class="wire" d="M 128,24 128,56" /></g><path class="wire" d="m 128,24 16,0" /><path class="wire"</pre> d="m 128,56 16,0" /><g transform="translate(160,40)"><title>|</title><path class="gate" d="m -18,-10 4,0 c 6,0 12,5 14,10 -2,5 -8,10 -14,10 | -4,0 c 2.5,-5 2.5,-15 0,-20 z" /></g><g><g><g><g transform="translate(16,0)"><path class="wire" d="M 96,16 96,32" /></g><path class="wire" d="m 96,16 16.0" /><path class="wire" d="m 96,32 16.0" /><q transform="translate(128,24)"><title>&</title><path class="gate" d="m -16,-10 5,0 c 6,0 11,4 11,10 0,6 -5,10 -11,10 I -5,0 z" /></g><g><g><g><g transform="translate(16,0)"><path class="wire" d="M 64,16" 64,16" /></g><path class="wire" d="m 64,16 16,0" /><g transform="translate(96,16)"><title>~</title><path class="gate" d="M -11,-6 -11,6 0,0" d= 10,00" d= 10 z m -5,6 5,0 M 4,0 C 4,1.1 3.1,2 2,2 0.9,2 0,1.1 0,0 c 0,-1.1 0.9,-2 2,-2 1.1,0 2,0.9 2,2 z" /></g><g><g transform="translate(64,16)"> <title><qztitle><path d="M 2,0 a 2,2 0 1 1 -4,0 2,2 0 1 1 4,0 z" /><text><tspan class="pinname" x="-4" y="4">a</tspan></text></g></g> <g transform="translate(96,32)"><title>b</title>cpath d="M 2,0 a 2,2 0 1 1 -4,0 2,2 0 1 1 4,0 z" /><text><tspan class="pinname" x="-4"</p> v="4">b</tspan></text></q></q><q><q><q><q><q>="transform="translate(16.0)"><path class="wire" d="M 96.48 96.64" /></q><path class="wire" d="M 96.48 96.64" /></q><path class="wire" d="M 96.48 96.64" />

 $d="m\ 96,48\ 16,0"\ />< path\ class="wire"\ d="m\ 96,64\ 16,0"\ />< g\ transform="translate(128,56)">< title>&</title>< path\ class="gate"\ d="m\ -16,-10\ 5,0\ c\ 6,0\ 11,4\ 11,10\ 0,6\ -5,10\ -11,10\ I\ -5,0\ z"\ /></g></g><< g>< g\ transform="translate(16,0)">< path\ class="wire"\ d="m\ 64,48\ 64,48"\ /></g>
<math display="block"> d="m\ 64,48\ 16,0"\ />< g\ transform="translate(96,48)">< title>< path\ class="gate"\ d="m\ -11,-6\ -11,6\ 0,0\ z\ m\ -5,6\ 5,0\ M\ 4,0\ C\ 4,1.1\ 3.1,2\ 2,2\ 0.9,2\ 0,1.1\ 0,0\ c\ 0,-1.1\ 0.9,-2\ 2,-2\ 1.1,0\ 2,0.9\ 2,2\ z"\ /></g><< g>< g\ transform="translate(64,48)">< title>b</title>< path\ d="m\ 2,0\ a\ 2,2\ 0\ 1\ 1\ -4,0\ 2,2\ 0\ 1\ 1\ 4,0\ z"\ />< text></g><</g>< g>< g\ transform="translate(96,64)">< title>a</title>< path\ d="m\ 2,0\ a\ 2,2\ 0\ 1\ 1\ -4,0\ 2,2\ 0\ 1\ 1\ 4,0\ z"\ />< text>< tspan\ class="pinname"\ x="-4"</p>$ 

y="4">a</tspan></text></g></g></g></g></g>