

[KEMBALI KE MENU SEBELUMNYA]</p><br style="box-sizing: border-box;" /><center style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="background-color: white; border: 2px dashed rgb(23, 128, 221); box-sizing: border-box; height: 240px; margin: 0px; overflow: auto; padding: 10px; width: 330px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">DAFTAR ISI<br style="box-sizing: border-box;" /><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">1. Jurnal</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">2. Alat dan Bahan</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">3. Rangkaian</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">4. Prinsip Kerja<br style="box-sizing: border-box;" /><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">5. Video Percobaan</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">6. Analisis</div></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: left;">7. Download</div></center><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">1. Jurnal<div>
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class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px;
padding: 0px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">2.
Alat dan bahan</div><div class="separator" style="border: 0px; box-sizing: border-box;
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style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">a..
Jumper</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;
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border-box; clear: both; margin: 0px; padding: 0px;">b.Panel DL 2203D </div><div
class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px;
padding: 0px;">c.Panel DL 2203C </div><div class="separator" style="border: 0px;
box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">d.Panel DL
2203S</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;
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</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="background-color: white; border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">a. IC 74193(JK flip flop)</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">Gambar 3. IC 74193</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px;

box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">b. IC 74192</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">Gambar 4. IC 74192</div><br style="box-sizing: border-box;" /><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">c. Power DC</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiifCpqi-hK4HMFsTtWx-k63-lZKbRxgl5nzCc7JeiAaIMiPGMBKUN_FYR-WP1ziACvUliQsf8WaWFFO0ZPi5mtkodnno

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none; transition: all 0.3s ease 0s;"></div><div class="separator" style="border: 0px; box-sizing:
border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">Gambar 5. Power

DC</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;
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margin: 0px; padding: 0px;">d. Switch (SW-SPDT)</div><div class="separator"

style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br

style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing:
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none; transition: all 0.3s ease 0s;"></div><div class="separator" style="border: 0px; box-sizing:
border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">Gambar 6.

Switch</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;
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/></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;
margin: 0px; padding: 0px;">e. Logicprobe atau LED</div><div class="separator"

style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align:
center;"><a

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none; transition: all 0.3s ease 0s;"></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">Gambar 7. Logic Probe</div></div></div></div></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><b style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">3. Rangkaian Simulasi</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div><div class="separator" style="clear: both; text-align: center;"><div class="separator" style="clear: both; text-align: center;"></div>
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<div class="separator" style="clear: both; text-align: center;">
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<div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;">
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</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgba(69,89,164,.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 transparent; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 transparent; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 transparent; --tw-shadow: 0 0 transparent; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0;

--tw-translate-y: 0; border: 0px solid rgb(217, 217, 227); box-sizing: border-box; margin: 1.25em 0px; text-align: justify; white-space: pre-wrap;">Sirkuit ini memiliki beberapa input yang mempengaruhi cara kerjanya. Input yang penting adalah input clock yang mengatur waktu kapan sirkuit akan menghitung. Saat sinyal clock berubah dari rendah ke tinggi, sirkuit akan menghitung satu angka.</p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgba(69,89,164,.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 transparent; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 transparent; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 transparent; --tw-shadow: 0 0 transparent; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; border: 0px solid rgb(217, 217, 227); box-sizing: border-box; margin: 1.25em 0px; text-align: justify; white-space: pre-wrap;">Selain itu, sirkuit ini memiliki input up/down yang menentukan arah penghitungan. Jika input ini diberi pulsa saat clock naik, sirkuit akan menghitung ke atas. Jika input ini diberi pulsa saat clock turun, sirkuit akan menghitung ke bawah.</p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgba(69,89,164,.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 transparent; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 transparent; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 transparent; --tw-shadow: 0 0 transparent; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; border: 0px solid rgb(217, 217, 227); box-sizing: border-box; margin: 1.25em 0px; text-align: justify; white-space: pre-wrap;">Sirkuit ini juga dapat diprogram untuk mengatur angka awal yang diinginkan. Misalnya, kita dapat mengatur agar sirkuit mulai menghitung dari angka 7 atau dari angka 12. Fitur ini memungkinkan penggunaan sirkuit sebagai pembagi angka dengan memodifikasi angka awal.</p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgba(69,89,164,.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 transparent; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 transparent; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 transparent; --tw-shadow: 0 0 transparent; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; border: 0px solid rgb(217, 217, 227); box-sizing: border-box; margin: 1.25em 0px; text-align: justify; white-space: pre-wrap;">Sirkuit ini juga memiliki input clear yang dapat mengatur ulang semua angka menjadi 0. Hal ini berguna jika kita ingin memulai penghitungan dari awal lagi.</p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgba(69,89,164,.5); --tw-ring-offset-color: #fff; --tw-ring-offset-shadow: 0 0 transparent; --tw-ring-offset-width: 0px; --tw-ring-shadow: 0 0 transparent; --tw-rotate: 0; --tw-scale-x: 1; --tw-scale-y: 1; --tw-scroll-snap-strictness: proximity; --tw-shadow-colored: 0 0 transparent; --tw-shadow: 0 0 transparent; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; border: 0px solid rgb(217, 217, 227); box-sizing: border-box; margin: 1.25em 0px; text-align: justify; white-space: pre-wrap;">Sirkuit ini dapat dikaskade atau digabungkan dengan sirkuit serupa lainnya untuk menghitung angka yang lebih besar. Untuk mengkaskadekannya, output borrow dan carry pada sirkuit ini dapat dihubungkan ke input count down dan count up pada sirkuit berikutnya.</p><p style="--tw-border-spacing-x: 0; --tw-border-spacing-y: 0; --tw-ring-color: rgba(69,89,164,.5);

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transparent; --tw-skew-x: 0; --tw-skew-y: 0; --tw-translate-x: 0; --tw-translate-y: 0; border: 0px
solid rgb(217, 217, 227); box-sizing: border-box; margin: 1.25em 0px 0px; text-align: justify;
white-space: pre-wrap;"><span style="background-color: white; font-family: times; font-size:
medium;">Dengan menggunakan sirkuit DM74LS193, kita dapat dengan mudah menghitung
angka dengan cepat dan akurat dalam berbagai aplikasi elektronik.</span></p></div><div
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border-box; clear: both; margin: 0px; padding: 0px;"><b style="border: 0px; box-sizing:
border-box; margin: 0px; padding: 0px;">5. Video Praktikum</b></div><div
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border-box;" /><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;
margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></div></div><b
style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">6.
Analisa</b></div><div class="separator" style="border: 0px; box-sizing: border-box; clear:
both; margin: 0px; padding: 0px;"><b style="border: 0px; box-sizing: border-box; margin:
0px; padding: 0px;"><br /></b></div><div class="separator" style="border: 0px; box-sizing:
border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="border:
0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator"
style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div
class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px;
padding: 0px; text-align: justify;"><span style="font-family: times; font-size: medium;">1.
Jelaskan perbedaan percobaan 3a dan 3b</span></div><div class="separator"
style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align:
justify;"><span style="font-family: times; font-size: medium;"><br /></span></div><div
class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px;
padding: 0px; text-align: justify;"><span style="font-family: times; font-size: medium;">Pada
percobaan 3a kita tidak menggunakan gerbang logika dan clock sumber untuk input pada
DN dan UP sedangkan pada percobaan 3b kita menggunakan gerbang logika yang
dihubungkan pada input DN dan UP</span></div><div class="separator" style="border: 0px;
box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: justify;"><span
style="font-family: times; font-size: medium;"><br /></span></div><div class="separator"
style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align:
justify;"><span style="font-family: times; font-size: medium;">2. Mengapa pada saat PL aktif

```

tidak dapat count secara otomatis?

Karena pada saat PL (Paralel load) tidak aktif yang mana mengakibatkan D0,D1,D2,D3 bersifat don't care dan ketika PL tidak aktif rangkaian akan bersifat MR. Artinya MR adalah master reset yang mengakibatkan semua input di reset dan semua output menjadi 0.

3. Mengapa pada saat PL mati input B1-B4 menjadi don't care?

Karena saat PL (Paralel load) mati input B1-B4 akan tidak di berpengaruh. yang mana pada data sheet dikatakan jika PL aktif input semuanya akan dilihat pada input D0 D1 D2 D3 yang terhubung B1-B4. dan jika PL mati rangkaian bersifat MR yang akan mereset semua input jadi output semua nya akan berupa 0

7. Download

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</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><br style="background-color: white; box-sizing: border-box; color: #444444; font-family: "open sans", arial, helvetica, sans-serif; font-size: 15px;" /></div></div></div></div></div></div></div></div>