EPICweb

EPICS to web interface

Part of WebTools
by
Abe Massry, Bill Davis, and
Paul Sichta

8/9/2011

EPICweb

- Uses standard web technologies (PHP, HTML, Javascript)

EPICweb

- Uses standard web technologies (PHP, HTML, Javascript)
- Read only interface to EPICS

EPICweb

- Uses standard web technologies (PHP, HTML, Javascript)
- Read only interface to EPICS
- Works in any current browser with no plugins

EPICweb

- Uses standard web technologies (PHP, HTML, Javascript)
- Read only interface to EPICS
- Works in any current browser with no plugins
- Live Data from EPICS

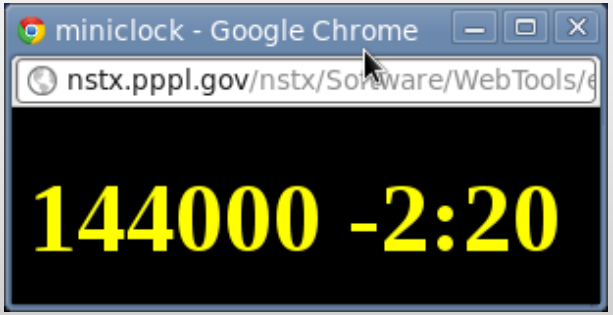
EPICweb

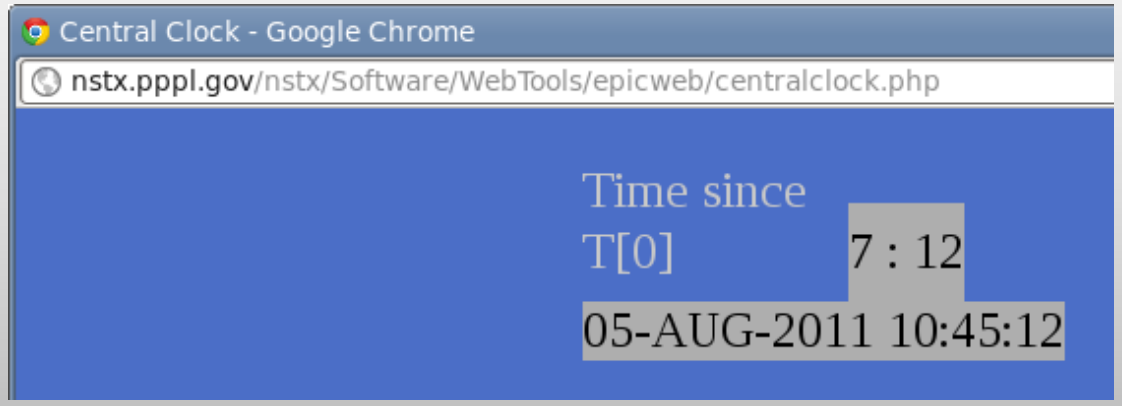
- Uses standard web technologies (PHP, HTML, Javascript)
- Read only interface to EPICS
- Works in any current browser with no plugins
- Live Data from EPICS
- Using Cascading Style Sheets web pages can be made to look like MEDM pages

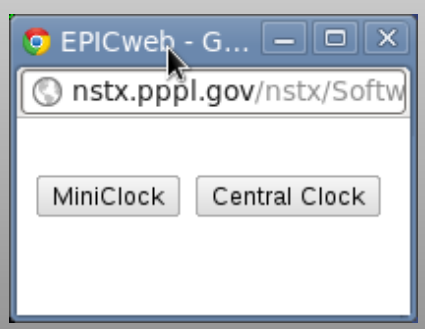
EPICweb

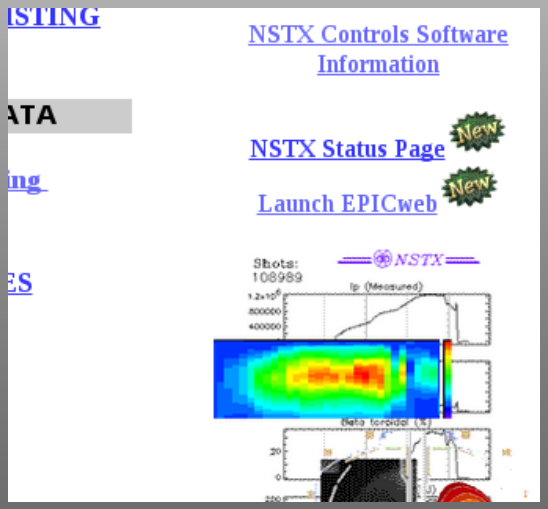
- Uses standard web technologies (PHP, HTML, Javascript)
- Read only interface to EPICS
- Works in any current browser with no plugins
- Live Data from EPICS
- Using Cascading Style Sheets web pages can be made to look like MEDM pages
- Update rate of 1sec

EPICweb


miniclock - Google Chrome
nstx.pppl.gov/nstx/Software/WebTools/e
144000 -2:20


Central Clock - Google Chrome
nstx.pppl.gov/nstx/Software/WebTools/epicweb/centralclock.php
Time since
T[0]
7 : 12
05-AUG-2011 10:45:12


EPICweb - G...
nstx.pppl.gov/nstx/Softw
MiniClock
Central Clock


NSTX Controls Software Information
NSTX Status Page
New
Launch EPICweb
New
NSTX

EPICweb

```bash
#!/bin/bash
export EPICS_CA_ADDR_LIST=epicsgate nstxioc1
export EPICS_CA_AUTO_ADDR_LIST=NO
while [ 1 ]
do
ck_currshotSEL=`caget ck_currshotSEL | awk '{print $2}'`
if [ -n "$ck_currshotSEL" ] ; then
        echo $ck_currshotSEL>shot_number1.txt
fi
ck_shotTime_CALC=`caget ck_shotTime_CALC | awk '{print $2}'`
if [ -n "$ck_shotTime_CALC" ] ; then
        echo $ck_shotTime_CALC>shot_time1.txt
fi
ck_elapMin_CO=`caget ck_elapMin_CO | awk '{print $2}'`
if [ -n "$ck_elapMin_CO" ] ; then
        echo $ck_elapMin_CO>last_shot_min.txt
fi
ck_elapSec_CO=`caget ck_elapSec_CO | awk '{print $2}'`
```

Bash script

nstxops

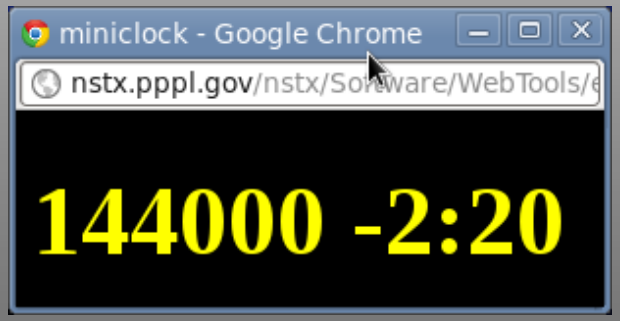
txt file

nstxops

```php
<?php
$total = $_POST['c'];
$total = $total + 1;
//exec('bash');
//$command = 'export PATH=$PATH:/usr/kerb
usr/X11R6/bin:/usr/local/mdsplus/bin:/opt
2/base-3.14.12/bin:/u/psichta/epicsR0314
EPICS_CA_ADDR_LIST=epicsgate nstxioc1 epi
;export EPICS_BASE=/u/psichta/epicsR0314
inux-x86_64;/u/psichta/epicsR031412/base-
ime_CALC | awk \'{print $2}\'>shot_time.t
//$val = exec($command);
$val1 = exec('cat last_shot_min.txt');
$val2 = exec('cat last_shot_sec.txt');
if ($val2 < 10) {
        $val2 = '0'.$val2;
}
$val3 = exec('cat last_shot_time.txt');
echo "<span class='grey-text'>Time since
;      &nbs
: $val2 </a></span><br /><span id='snc-cl
?>
```

php script

zweb



php page

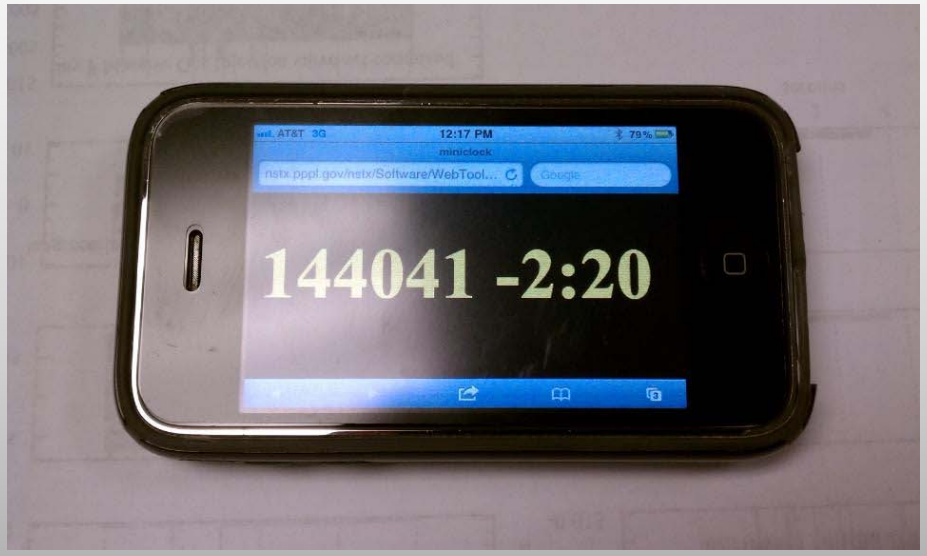
client

javascript file

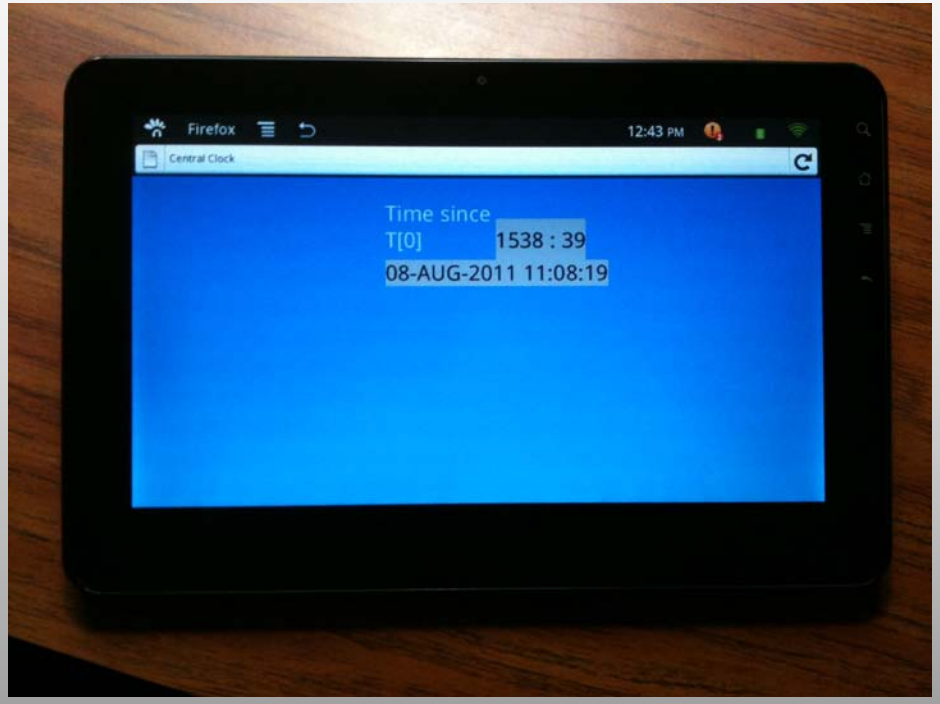
client

```javascript
$(document).ready(function()
    timedCount();
);
    var t;
    var c=1;
    function timedCount()
    {
        $.ajax({
            type: "POST",
            data: "c="+c,
            url: "last_shot.php",
            success: function(msg)
             {
                 $("span#since").html(msg);
                 $("span#since").fadeIn();
             }
        });
    c=c+1;
    t=setTimeout("timedCount()",1000);
    }
```

EPICweb



Works on an iPhone



And on an Android Tablet