

## aCSTV - antiX Nharaunda Yakareruka TV Starter

### Sevhisi:


Chirongwa ichi chinoshandiswa kugashira zviri nyore chiteshi cheterevhizheni chinowanikwa munharaunda senzira yedata kuburikidza neInternet. Sarudzo yechiteshi uye kugoverwa kwechirongwa slots inogadziriswa zvakasununguka. Nhepfenyuro dzinogamuchirwa pasi rose dzinogona kuwedzerwawo, kunze kwekunge dzisina kuvharwa nemupi webasa kuburikidza neGeoIP yenyika iri mubvunzo.

Kubatana kweinternet kunodiwa kuti ugamuchire machaneli.

- Kutanga kugamuchira:  
Kutanga kugamuchira TV, dzvanya rimwe remabhatani echiteshi (bhatani rekuruboshwe regonzo).  
Cherechedza: Zvinogona kutora kusvika kumasekonzi gumi nemaviri kuti mufananidzo weTV uoneke. Kusiya neanalog terevhizheni, uko kuchinjika kubva kune imwe chirongwa kuenda kune imwe kwakaitika mukati mezhvikamu zvesekondi, kunyangwe nenhorondo dzechubhu seti, nedhijitari reception kubatana kune yakatarisana server yemupi wekutapurirana sevhisi kunofanirwa kutanga kusimbiswa kuburikidza neInternet. Uye zvakare, iyo inouya data inofanirwa kuvharwa kwemasekondi mashoma kuitira - kugonesa kutamba-kusinganetse, izvo zvinokonzeresa kunonoka mukutanga kweiyo chaiyo yekutamba yemufananidzo. Hurefu hwenguva hunoenderana nezvakawanda zvinhu, zvinosanganisira nguva yekupindura sevha yeanoenderana ekufambisa sevhisi mupi uye - nekumhanyisa kwePC .
- Chinja zviteshi:  
Kuti uchinje kune chimwe chirongwa, tinya rimwe bhatani rechiteshi.
- kugamuchirwa kweTV:  
Kudzima chiteshi chazvino, dzvanya bhatani "Mira" .
- :  
Kuti ubude paCSTV, dzvanya kiyi «Buda» (kana "b").
- Kutarisisa kwechirongwa:  
Yazvino chirongwa chekutarisa chinogona kuratidzwa mubrowser ine bhatani «Program preview» . Mupi webasa anodiwa anogona kugadzirwa zvakasununguka muzvirongwa.
- :  
Iyo "Scene foto« bhatani rinogadzira mufananidzo weiyo yazvino TV mufananidzo. Mufananidzo wacho unochengetwa mufolda yakachengetwa muzvirongwa pasi pezita refaira *Scene photo-<Sender>-<Date>-<Time>.png* . Muenzaniso: *Scene photo-Arte-03.10.2021-17:14:22.png*
- Kurekodha basa:  
Tanga kurekodha chirongwa chazvino nebhatani »Vhidhiyo yekurekodha« . Chiratidzo chitsvuku chekudzora kurekodha chinoonekwa mubhawa yemamiriro. Kudzvanya pane aCSTV yekurekodha icon inovhura iyo nhaurirano yeruzivo. Kurongeka kweruzivo kunowedzera nekufamba kwenguva. Kurekodhwa kunochengetwa pasi pezita refaira *Broadcast Recording-<Sender>-<Date>-<Time>.ts* mufolder rataurwa pasi peSettings.  
The file format .ts inogona kuridzwa ne mpv , semuenzaniso . Muenzaniso: *Kutepfenyura kurekodha-Phoenix-03.10.2021-16:02:31.ts*

Pedzisa kurekodha nebhatani «Misa kurekodha». Izvi zvinopedza kurekodha uye chironywa chazvino chinoramba chichigamuchirwa. Nekuda kwezvikonzero zvehunyanzvi, kuratidzwa kwechironywa chazvino pachiratidziro parizvino kunovhiringwa kwemasekonzi mashoma *paunotanga nekumisa kurekodha* . Kuti ushandure kune mamwe mafomati efaira, ona "*Miscellaneous*".

- Kuchinja rondedzero yechiteshi

Iyo bhatani rekupihwa kwemabhatani echiteshi mubhokisi rehurukuro huru rinogona kuchinjwa uchishandisa  bhatani, nekuverenga mune imwe yakagadzirirwa chiteshi rondedzero *\_Dhairekitori rezviteshi zvezviteshi ~/.config/aCSTV* , asi faira rinogona kuverengwa kubva kune chero dhairekitori rine mvumo yekunyora. Sample mafaera emunyika dzakawanda anogona kuwanikwa mudhairekitori/ *usr /local/lib/aCSTV/Stationslisten* uye anogona zvakare kukopwa nemaoko kubva ipapo kuenda kune aCSTV dhairekitori. Zvimwe zvezviteshi pane iyi runyorwa zvinogona kugamuchirwa pasi rese, zvimwe zvavharwa geo uye zvinongogashirwa munyika yakafanira. Rondedzero yechiteshi iripo zvino inogona kugadziridzwa otomatiki muSettings menyu.

- Mapfupi uye mbeva kutonga:

Aya anotevera mabasa anopihwa panguva yekutamba uchishandisa MPV kiyi uye mbeva zvinodzora:

*General commands*

- Ratidza uye uvanze kiyipedhi -
- Chinja pakati pe-yakazara-skrini modhi uye hwindo modhi: tinya kaviri pamufananidzo wevhidhiyo urikumhanya. (uyewo: f)
- Yakarurama vhidhiyo furemu saizi (yakasviba miganhwa): Alt + Alt -
- Kururamisa odhiyo / vhidhiyo desynchronization: Ctrl + Ctrl -
- Rongedza vhoriyamu yekutamba: 9 0
- Chengetedza/nyarara: m
- Gamma kururamisa vhidhiyo mufananidzo: 6 5
- Kupenya kwevhidhiyo mufananidzo: 4 3
- Siyanisa mufananidzo wevhidhiyo: 2 1
- Mufananidzo wevhidhiyo saturation: 8 7
- Misa uye tangazve kutamba: tinya kurudyi pamufananidzo wevhidhiyo. (zvakare: p uye space bar) (zvichienderana nehuwandu hwe data kusvika kumaminiti makumi matatu, zvichienderana nekuti yakazara sei buffer yemunharaunda)
- Nekukurumidza kumberi / dzosera kumashure (1 sec): Shift ← Shift →
- Kurumidza kuenda mberi / dzosera kumashure (5 sec): ← →
- Kurumidza kuenda mberi / dzosera kumashure (1 min): ↑ ↓
- (Kurumidza kumberi uye dzosera kumashure zvinogoneka mukati mebuffer, kunyanya mushure mekushandisa kumbomira basa)
- Mufananidzo wechiitiko: bhatani mune aCSTV control panel kana s

(Iyo foto ichiri inoiswa mufolda yakatsanangurwa mune aCSTV marongero

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· Vhidhiyo kurekodha yechirongwa chazvino: bhatani mune aCSTV control panel

Kurumidza / kuderedza kutamba (10%): []

(kugona kushomeka, kunobatsira pakugadzirisa

zvisizvo -kumhanya, mafirimu akaiswa zvisizvo

anoita kuti cache ibude kana ichiridzwa nekukasira, kana kuti zvikamu

zvadzo zvinopera basa zvisati zvatorwa

kana ichiridzwa zvishoma nezvishoma )

· Kutamba kumhanya kwakajairika: backspace

Seta uye kukanzura risingaperi loop (AB): l

Chinja kune imwe vhidhiyo rwizi (kana iripo): Shift -

Chinja kune imwe odhiyo rwizi (kana iripo): #

*Mashoko anoita:*

· Dzvanya uye yekutamba ruzivo Shift i

· Buffer kuzadza nhanho uye yekutamba chinzvimo muye buffer memory:

Shift kana zvakafanana

· Wona Stream URL F8

· Ratidza ruzivo rwekuyerera kweodhiyo, vhidhiyo uye zvinyorwa zvidiki F9

*Subtitle maficha (kana aripo)*

Gonesa/dzima zvinyorwa zvidiki: v

Chinja pakati pezvinyorwa zvidiki zvakasiyana: j J

Batanidza zvinyorwa zvidiki nemufananidzo wevhidhiyo: z Z

## **Settings:**

Yese aCSTV marongero anogona kugadziridzwa mushure mekudzvanya bhatani «Settings».

- **Kuganhurirwa kweyero yedata data:**

Nekumisikidzwa kweyero yepamusoro yekutamba mukbps, iyo data rwizi yakakumbirwa neserver inogona kuchinjirwa kune kugona kugadzirisa komputa inoshandiswa uye mutsara weInternet.

1. Kuganhurirwa zvinoenderana nekuita kwePC. Zvakaitika zvakaradidza kuti imwe-core 32-bit Pentium-M ine 1.7 GHz inogona kubereka huwandu hunosvika 3000 kbps pasina kukanganisa. Saka zvinokurudzirwa kuimisa kutenderedza kukosha uku paPC yakadaro. aCSTV inosarudza yakanakisa iripo data rwizi kubva kune webasa webasa iri pazasi peiyo yakatarwa kukosha kwepamusoro. Kukosha kwepamusoro kunogona kuiswa kune mamwe makombiyuta ane simba, uye imwe yakaderera kune isina simba.

2. Kuganhurirwa zvinoenderana neiyo iripo yekufambisa kugona kweiyero Internet yekubatanidza. Zvichienderana nemhando yeInternet yekubatanidza (kana pamwe iyo WLAN) , zvingave zvakakosha kudzikamisa kukosha pazasi pekuita kwePC, semuenzaniso kusvika 1800 . Yakaderera tsika inokonzeresa yakaderera mufananidzo resolution, nepo yakakwirira mhedzisiro inoramba ichidonha. Nhepfenyuro zhinji dzakatepfenyurwa nevatepfenyuri vepaterevhizheni vekuGermany parizvino vari kutepfenyura nemitengo

ye325k , 581k, 635k, 969k, 1020k, 1130k, 1790k,  
1807k, 2120k, 3256k, 3544k, 3990k, 3990k

ese anowanikwa. Zvichienderana neanopa masevhisi, vamwe vatepfenyuri vepachivande vanosangana nekuvhiringwa kakawanda panguva dzepamusoro panguva yekufambisa, kunyangwe chiyero chedata chakarongedzwa nemazvo. Pane dzimwe nguva dzezuya, kugamuchirwa kwezviteshi izvi kunoshanda zvakakwana zvakare.

- Kusarudza iyo skrini yeTV Chidzitiro  
cheiyo TV mufananidzo inobuda inogona kugadziridzwa muzvirongwa. Kana, semuenzaniso, seti yeTV yakabatana nePC seychipiri chidzitiro uye yakagadziridzwa zvinoenderana, mufananidzo weTV unogona kuratidzwa paTV nekutsanangura nhamba inoenderana. Chenjedzo: Kuverenga kunotanga pa zero, kureva »0« ndiyo yekutanga skrini, »1« yechipiri etc. Nhamba yepamusoro ye32 skrini inogona kugadziriswa.
- Full screen mode/window mode  
Iri bhokisi rekutarisa rinogona kushandiswa kutaura kuti mufananidzo weTV wakatanga seskirini yakazara kana sehwindo. Unogona kushandura nekudzoka pakati pe-yakazara-skrini uye hwindo modhi chero nguva ( *tinya kaviri* pamufananidzo weTV wazvino kana kudzvanya "F" kiyi ).
- Kutamba kumberi  
Nebhokisi rino cheki unokwanisa kuona kana mufananidzo weTV uchifanira kugara uchiratidzwa kumberi kana kuti ungave wakafukidzwa nemamwe mahwindo. Chiratidziro chinogona kuchinjwa chero nguva kuburikidza nemenu yemukati yebhari rebasa → Layer , pamwe chete nekiyi musanganiswa "Shift T" .
- Target forodha yemifananidzo yezvitiko uye mavhidhiyo  
akarekodhwa Pinda maforodha umo zvinorekodhwa uye mapikicha ezvitiko zvichachengetwa munzvimbo dzakakodzera dzekuisa. Iwo anoenderana akajairwa maforodha eiyo antiX inoshanda sisitimu akaiswa, anonongedzwa ne \$XDG\_PICTURES\_DIR/ uye \$XDG\_VIDEOS\_DIR/. Mushandisi apinda anofanira kunge aine mukana wekunyora kune maforodha ataurwa.
- Rongedza chiteshi chezviteshi nemaoko Runyorwa rwezviteshi rwunotengwa  
kunze kwenyika runogona kugadziridzwa nemaoko. Zvinyorwa zvitsva zvinogona kuwedzerwa, zvinyorwa zviripo zvinogona kudzimwa kana kuchinjwa. Ose mazita echiteshi uye akabatana server kero anogona kugadziridzwa. Mitsetse inotanga ne hashi (#) yakavharwa uye haibude pa keypad.
- otomatiki Runyorwa  
rwechiteshi chiri kuverengwa parizvino chinogona kuvandudzwa otomatiki nebhata rekuti "Gadzirisa" . Indaneti iripo inodiwa pane izvi. Iyo nyika-chaiyo chiteshi madhairekitori anoramba achigadziridzwa nevazvipiri kubva kuIPTV.org chirongwa. Paunenge uchivandudza rondedzero yechiteshi otomatiki, unogona kushandisa iyo "Tarisa yekubatanidza kune chiteshi" kuisa kunze izvo zviteshi zvisingagamuchirwe panzvimbo yako. Kuita uku kunogona kutora nguva (kunyanzwa kana iri rondedzero huru yematanho), sezvo mhinduro kubva kuseva inofanirwa kumirira chiteshi


chega chega. Kana ikashaikwa kana kukanganisa, pachinzvimbo chekuve nekuramba kwakaringana, kubatana kunofanirwa kubvumidzwa kupedza nguva mutumwa asati atadza kuraswa.

### **Zvimwe:**

#### **Zvishandiso Zvishandiso**

socat , feh, buffer, mpv, yd-dlp, sed, xdotool, wmctrl inofanira kuiswa. Izvi zvinovimbiswa otomatiki paunenge uchiisa kuburikidza neDebian yekuisa package. Kana izvi zvikamu zvisipo, semuenzaniso panguva yekuiswa kwemanyorero, aCSTV haishande.

#### **Kuwanda kwematanho echiteshi**

line yakakura kwazvo chiteshi rondedzero ine anopfura 40-50 chiteshi, kugadzirisa ne aCSTV kunowedzera husimbe. Kuti ushande nekukurumidza uye nekuchengetedza zviwanikwa, iwe unofanirwa kuve nechokwadi chekuti chiteshi chiteshi chinogumira kune izvo zvinonyatso kudiwa, uye kuti unodzima (kutura kunze) kana kubvisa zvese zvisingaite mu "*Edit chiteshi chinyorwa*" marongerero . Huwandu hwemakiyi anogona kupihwa hunosvika 264, zvichienderana nenhamba yemabhii pazita rega rega. Zvinogoneka kuti keypad yehukuru uhu haichagone kuratidzwa zvine hungwaru pamamonitor madiki. Ese mamwe manyorerwo ezvinyorwa zvakananyisa zvakadaro anofurativwa. Mahombe echiteshi rondedzero anogona kupatsanurwa kuita akati wandei mafaera uchishandisa mameseji edhita seGeany kana Leafpad , iyo inogona kusarudzwa uchishandisa "*Shandura chiteshi chinyorwa* " bhatani (icon: ) pakiyipadhi.

#### **Mafaira efaira nekushandurwa**

Mafaira akachengetwa ari mu .ts fomati anogona kuridzwa zvakananga zvakare neMPV muantiX . Kana uchida, unokwanisa kushandisa ffmpeg kushandura marekodhi epurogiramu akachengetwa kubva kufomati ye.ts kuenda kune imwe faira . Shanduko panguva yekurekodha inogogoneka pamasisitimu ane simba zvakananyisa uye nekudaro haina kuitirwa aCSTV. Sezvo zvisingaite zvakare kufanotaura kuti ndeipi fomati ichafambiswa nechiteshi, kuyedza kudiki kunodiwa kana uchinge watendeuka mushure. Kana iyo fomati yakagamuchirwa isingaenderane nekwakanangwa fomati, ingave vhidhiyo kana yekuteerera data stream irimo, kana zvese zviri zviviri, zvinofanirwa kuvharwa patsva, zvikasadarwa zvinokwana kuzvirongedza zvisina kuchinjika mune yaunoda chinangwa fomati.

Mienzaniso:

- kuna Matroska , pasina re-encoding  
ffmpeg -i './filename.ts' -map 0 -c copy './filename.mkv'
- kuenda ku mp4 , pasina kukodha zvakare  
ffmpeg -i './filename.ts' -map 0 -c kopi './filename.mp4'
- Kana iyo data inofambiswa nenhepfenyuro uye yakachengetwa mu .ts faira isingaenderane neyakasarudzwa fomati yechinangwa (eg mp4 ), shanduko iyi haishande uye inogoburitsa meseji yemhosho. Pakadai vhidhiyo inogona kuvharwa zvakare:  
ffmpeg -i './filename.ts' -c:v libx264 -c:a kopi './filename.mp4'
- Kana kuti re-encode vhidhiyo neodhiyo:  
ffmpeg -i './filename.ts' -c:v libx264 -c:a aac './filename.mp4'

Zvichienderana nesimba rekombuta yePC, saizi yefaira uye rudzi rwe-encoding, kugadzirisa kunogona kutora nguva.