

aCSTV — I-antiX Community Simple TV Starter

Isevisi:

Lolu hlelo lusetshenziselwa ukwamukela kalula iziteshi zikamabonakude ezitholakala esifundeni njengokusakazwa kwedatha nge-inthanethi. Ukukhethwa kwesiteshi kanye nokwabiwa kwezikhala zohlelo kulungiseka ngokukhululekile. Iziteshi ezitholwa emhlabeni jikelele nazo zingangezwa, inqobo nje uma zingavinjwanga umhlinzeki wesevisi nge - *GeoIP* yezwe okukhulunywa ngalo. Kudingeka uxhumano lwe-inthanethi ukuze uthole iziteshi.

- Qala ukwamukela:
Ukuze uqale ukwamukela i-TV, cindezela enye yezinkinobho zesiteshi (chofoza inkinobho yegundane kwesokunxele).
Qaphela: Kungase kuthathe amasekhondi angu-12 ukuthi isithombe se-TV sivele. Ngokuphambene nethelivishini ye-analogue, lapho ukushintsha usuka kolunye uhlelo uye kolunye kwenzeka phakathi kwezingxenyana zeseekhondi, ngisho namasethi omlando wamashubhu, ngokwamukela kwedijithali ukuxhumana neseva efanele yomnikezeli wesevisi yokudlulisela kufanele kuqala kusungulwe nge-inthanethi. Ngaphezu kwalokho, idatha engenayo kufanele ifakwe kubhafa imizuzwana embalwa ukuze unike amandla ukudlalwa okungenazinkinga, okuphinda kubangele ukubambezeleka ekuqaleni kokudlala kwangempela kwesithombe. Ubude besikhathi buncike ezintweni eziningi, okuhlanganisa isikhathi sokuphendula seseva yomhlinzeki wesevisi yokudlulisa abafanele kanye - nesivinini sokucubungula se -PC.
- Shintsha iziteshi:
Ukushintshela kolunye uhlelo, cindezela enye inkinobho yesiteshi.
- ukwamukela i-TV:
Ukucisha isiteshi samanje, cindezela inkinobho ethi "*Misa*" .
- ohlelweni:
Ukuze uphume ku-aCSTV, cindezela inkinobho ethi "*Phuma*" (noma "b").
- Ukubuka kuqala kohlelo: Ukubuka
kuqala kohlelo lwamanje kungavezwa esipheqululini ngenkinobho ethi »*Ukubuka kuqala kohlelo*« . Umhlinzeki wesevisi oyifunayo angacushwa ngokukhululeka kumasethingi.
- Isithombe sesigcawu:
Inkinobho ethi »Isithombe sendawo« idala isithombe sesehlakalo sesithombe samanje se-TV. Isithombe sigcinwe kufolda egcinwe kuzilungiselelo ngaphansi kwegama lefayela elithi *Scene photo-<Sender>-<Usuku>-<Isikhathi>.png* . Isibonelo: *Isithombe sesigcawu-Arte-03.10.2021-17:14:22.png*
- Umsebenzi wokurekhoda:
Qala ukurekhoda uhlelo lwamanje ngenkinobho ethi »*Ukuqoshwa kwevidiyo*« . Uphawu lokulawula ukurekhoda olubomvu luvela kubha yezinga. Ukuchofa isithonjana sokurekhoda se-aCSTV kuvula ingxoxo yolwazi. Ukunemba kolwazi kuyanda ngokuhamba kwesikhathi esidlulile. Okurekhodiwe kugcinwa ngaphansi kwegama lefayela elithi *Broadcast Recording-<Sender>-<Idethi>-<Isikhathi>.ts* kufolda ecaciswe ngaphansi kokuthi Izilungiselelo.
Ifomethi yefayela *.ts* ingadlalwa nge *mpv* , isibonelo . Isibonelo: *Sakaza ukurekhoda-Phoenix-03.10.2021-16:02:31.ts*


Qeda ukurekhoda ngenkinobho ethi "Misa ukurekhoda". Lokhu kuqeda ukurekhoda futhi uhlelo lwamanje luyaqhubeka nokutholwa.

Ngenxa yezizathu zobuchwepheshe, isibonisi sohlelo lwamanje esikrinini siphazanyiswa imizuzwana embalwa uma *uqala* futhi *umisa ukurekhoda*.

Ukuze uguqulele kwamanye amafomethi wefayela, bona okuthi

"Inxubevange".

- Ukushintsha uhlu lwesiteshi

Ukunikezwa kwezinkinobho zezinkinobho zesiteshi kubhokisi lengxoxo elikhulu kungashintshwa kusetshenziswa inkinobho , ngokufunda kolunye uhlu lwesiteshi olulungisiwe. Uhla lwemibhalo oluzenzakalelayo lohlu lweziteshi ngu- `~/config/aCSTV`, kodwa ifayela lingafundwa kunoma iyiphi inkomba enezimvume zokubhala. Amafayela ayisampula emazweni amaningi angatholakala kuhla lwemibhalo/ *usr*

/local/lib/aCSTV/Stationlisten futhi angakopishwa ngesandla ukusuka lapho aye kuhla lwemibhalo lokucushwa kwe-aCSTV. Ezinye zeziteshi ezikulolu hlu zingamukelwa emhlabeni wonke, ezinye zivinjelwe i-geo futhi zingamukelwa kuphela ezweni elifanele. Uhlu lwesiteshi olufundwa kulo njengamanje lungabuyekwezwa ngokuzenzakalelayo kumenyu Yezilungiselelo.

- Izingamuleli nokulawulwa kwegundane:

Imisebenzi elandelayo inikezwa ngesikhathi sokudlala kusetshenziswa izinkinobho ze-MPV nezilawuli zegundane:

Imiyalo evamile

- Bonisa futhi ufihle ikhiphedi -

- Shintsha phakathi kwemodi yesikrini esigcwele kanye nemodi yewindi: chofoza kabili

esithombeni sevidiyo esisebenzayo. (futhi: f)

Lungisa usayizi wozimele wevidiyo (imingcele emnyama): Alt + Alt -

Ukwahlukanisa okulungile komsindo/ividiyo: Ctrl + Ctrl -

Lungisa ivolumu yokudlala: 9 0

- Thulisa/susa ukuthula: m

Isithombe sevidiyo yokulungiswa kwe-Gamma: 6 5

Isithombe sevidiyo esikhanyayo: 4 3

Qathanisa isithombe sevidiyo: 2 1

Isithombe sevidiyo esigcwele umbala: 8 7

- Misa isikhashana futhi uqalise kabusha ukudlala: chofoza kwesokudla esithombeni

sevidiyo. (futhi: p kanye nebha yesikhala) (kuya ngezinga ledatha elingafika kumaminithi angu-

30, kuye ngokuthi ibuffer yendawo igcwele kangakanani)

- Iya phambili ngokushesha / hlehlisa (1 isekhondi): Shift ← Shift →

- Iya phambili ngokushesha / hlehlisa (5 isekhondi): ← →

Iya phambili ngokushesha / hlehlisa (1 imiz): ↑ ↓

(Dlulisa phambili ngokushesha futhi uhlehlise emuva

ngangokunokwenzeka ngaphakathi kwebhafa,

ikakhulukazi ngemva kokusebenzisa umsebenzi wokumisa isikhashana)

- Isithombe sesigcawu: inkinobho kuphaneli yokulawula ye-aCSTV noma s

(Isithombe esimile sibekwe kufolda eshiwo kuzilungiselelo ze-aCSTV)

· Ukuqoshwa kwevidiyo yohlelo lwamanje: inkinobho kuphaneli yokulawula ye-aCSTV

Sheshisa/yehlisa ukudlalwa (10%): []

(amandla anqunyelwe, awusizo ekulungiseni isivinini esingalungile, amamuvi afakwe ikhodi ngokungalungile abangela ukuba inqolobane iphele lapho idlalwa ngokushesha kakhulu, noma amasegimenti awo aphelelwa yisikhathi ngaphambi kokuba alandwe uma edlalwa kancane kakhulu)

· Isivinini sokudlala sijwayelekile: i-backspace

· Setha futhi ukhansela iluphu engapheli (AB): l

Shintshela kokunye ukusakazwa kwevidiyo (uma kukhona): Shift -

Shintshela kokunye ukusakazwa komsindo (uma kukhona): #

Imisebenzi yolwazi:

· Imininingwane yokusakaza nokudlala Shift i

· Izinga lokugcwalisa ibhafa nendawo yokudlala kumemori yesigcinalwazi: Shift noma okufanayo

· Buka i-URL yokusakaza F8

· Bonisa ulwazi lokusakaza lomsindo, ividiyo nemibhalo engezansi F9

Izici zemibhalo engezansi (uma zikhona)

Nika amandla/khubaza imibhalo engezansi: v

Shintsha phakathi kwemibhalo engezansi ehlukene: j J

Vumelanisa imibhalo engezansi nesithombe sevidiyo: z Z

Izilungiselelo:

Zonke izilungiselelo ze-aCSTV zingalungiswa ngemva kokucindezela inkinobho ethi «Izilungiselelo».

- **Umkhawulo wesilinganiso sedatha yevidiyo:**

Ngokusethwa kwezinga eliphezulu lokudlala ku-kbps, ukusakazwa kwedatha okucelwe iseva kungashintshwa kumakhono okucubungula ekhompuyutha esetshenzisiwe kanye nolayini we-inthanethi.

1. Umkhawulo ngokuya ngokusebenza kwe-PC. Okuhlangenwe nakho kubonise ukuthi i-single-core 32-bit Pentium-M ene-1.7 GHz ingakhiqiza kabusha ubuningi obungafinyelela ku-3000 kbps ngaphandle kokuphazamiseka. Ngakho-ke kuyatuseka ukuthi uyibeke eduze kwaleli nani ku-PC enjalo. I-aCSTV ikhetha ukusakazwa kwedatha okungcono kakhulu okutholakalayo kumnikhezeli wesevisi okungaphansi kwenani eliphakeme elimisiwe. Inani eliphakeme lingafakwa kumakhompuyutha anamandla, futhi eliphansi kwababuthaka.
2. Umkhawulo ngokuya ngomthamo wokudlulisa otholakalayo woxhumano lwe-inthanethi. Kuye ngekhwalithi yoxhumo lwe-inthanethi (noma mhlawumbe i-WLAN), kungase kudingeke ukuba ukhawule amanani angaphansi kokusebenza kwe-PC, isb. ukuya ku-1800) ukwenza kwenzeke. Amanani aphansi aholela ekulungisweni kwesithombe okuphansi, kuyilapho amanani aphezulu eholela ekulahlekeni okuqhubekayo.

Imisakazo eminingi yabasakazi bethelivishini yomphakathi yaseJalimane okwamanje isakaza ngamanani angu-

325k , 581k, 635k, 969k, 1020k, 1130k, 1790k,

1807k, 2120k, 3256k, 3544k, 3990k wonke atholakala kumashaneli angu-290

. Kuye ngomhlinzeki wesevisi, abanye abasakazi abazimele baba nokuphazamiseka okuvamisile

ngezikhathi eziphakeme kakhulu phakathi nokudlulisa, ngisho noma izinga ledatha limiswe ngendlela efanele. Ngezinye izikhathi zosuku, ukwamukelwa kwalezi ziteshi kusebenza kahle futhi.

- Ukukhetha isikrini se-TV Isikrini
sokukhipha isithombe se-TV singahlelwa ezinhlelweni. Uma, ngokwesibonelo, isethi ye-TV ixhunywe kwi-PC njengesikrini sesibili futhi yahlelwa ngokufanele, isithombe se-TV singavezwa ku-TV ngokucacisa inombolo yesikrini ehambisanayo. Isexwayiso: Isibalo siqala ku-zero, okungukuthi »0« yisikrini sokuqala, »1« okwesibili njll. Izikrini eziphezulu ezingu-32 zingabhekwa.
- Imodi yesikrini esigcwele/imodi yewindi
Leli bhokisi lokuhlola lingasetshenziswa ukucacisa ukuthi isithombe se-TV siqalwa njengesibuko esigcwele noma njengewindi. Ungashintsha uye phambili phakathi kwesikrini esigcwele kanye nemodi yewindi nganoma yisiphi isikhathi (*chofoza kabili* esithombeni samanjanje se-TV noma cindezela inkinobho *ethi "F"*).
- Ukudlala ngaphambili
Ngaleli bhokisi lokuhlola ungakwazi ukunquma ukuthi isithombe se-TV kufanele sikhonjiswe njalo yini ngaphambili noma kungenzeka simbozwe ngamanye amawindi. Isibonisi singashintshwa noma nini ngemenyu yokuqokethwe yebha yomsebenzi → Isendlalelo , kanye nenhlanganisela yokhiye "*Shift T*" .
- Ifolda eqondiwe yezithombe zesigcawu
nokurekhodwa kwamavidiyo Faka amafolda lapho okurekhodiwe nezithombe zesigcawu kuzogcinwa khona ezinkambini zokufaka ezifanele. Amafolda ajwayelekile ahambisanayo esistimu yokusebenza ye-antiX asethwe kusengaphambili, abhekisela ku-\$XDG_PICTURES_DIR/ kanye ne-\$XDG_VIDEOS_DIR/. Umsebenzisi ongene ngemvume kufanele abe nokufinyelela kokubhala kumafolda ashiwo.
- Hlela uhlu lwesiteshi mathupha Uhlu lwesiteshi
samanjanje olungenisiwe lungahlelwa mathupha. Okufakiwe okusha kungengezwa, okufakiwe okukhona kungasuswa noma kushintshwe. Kokubili amagama eziteshi namakheli eseva ahlobene angahlelwa. Imigqa eqala ngo-hash (#) ivaliwe futhi ayiveli kukhiphedi.
- Ukubuyekeza uhlu lwesiteshi ngokuzenzakalelayo
Uhlu lwesiteshi olufundwa kulo njengamanje lungabuyekezwa ngokuzenzakalelayo ngenkinobho *ethi "Buyekeza"* . Uxhumano lwe - inthanethi olukhona luyadingeka kulokhu. Izinkomba zeziteshi eziqondene nezwe zibuyekezwa ngokuqhubekayo amavolontiya avela kuphrojekthi ye-*IPTV.org* . Uma ubuyekeza uhlu lwesiteshi ngokuzenzakalela,


ungasebenzisa ukulungiselelwa kokuthi "Hlola ukuxhumeka esiteshini" ukuze ukhiphe lezo ziteshi ezingenakwamukelwa endaweni yakho. Le nqubo ingase idle isikhathi uma kuqhathaniswa (ikakhulukazi esimweni sohlu olukhulu lwamashaneli), njengoba impendulo evela kuseva kufanele ilindelwe esiteshini ngasinye. Uma ishoda noma iyiphutha, esikhundleni sokuqukatha ukwenqaba okulungile, ukuxhumana kufanele kuvunyelwe ukuthi kuphele ngaphambi kokuthi umthumeli owonayo alahlwe.

Okunhlobonhlobo:

Izinsiza

Izinsiza ze- *socat* , *feh* , *buffer* , *mpv* , *yd-dlp* , *sed* , *xdotool* , *wmctrl* kumele zifakwe. Lokhu kuqinisekiswa ngokuzenzakalelayo lapho kufakwa ngephakheji yokufaka ye-Debian. Uma lezi zingxenye zishoda, isb ngesikhathi sokufakwa mathupha, i-aCSTV ngeke isebenze.

Ububanzi bohlu lweziteshi

Ngohlu lweziteshi olukhulu kakhulu oluneziteshi ezingaphezu kuka-40-50, ukucutshungulwa kwe-aCSTV kuya ngokuya kuvilapha. Ukuze kusebenze ngokushesha nokonga izinsiza, kufanele uqinisekise ukuthi uhlu lwesiteshi lukhawulelwe kokufakiwe okudingekayo ngempela, nokuthi uyenza kusebenze (ubeke amazwana) noma ukhiphe konke okungenayo okungadingekile kuzilungiselelo "Zohlu lweziteshi" . Inombolo enkulu yokhiye abanganikezwa icishe ibe ngu-264, kuye ngenani lezinhlamvu ekufakweni kwegama ngalinye. Kungenzeka ukuthi ikhiphedi yalo sayizi ngeke isakwazi ukuboniswa ngendlela enengqondo kumamonitha amancane. Konke okunye okufakiwe okusebenzayo kohlu oluningi kangaka kuzitshwa. Uhlu olukhulu lweziteshi lungahlukaniswa lube amafayela amaningana ngamanye kusetshenziswa umhleli wombhalo njenge- *Geany* noma *i-Leafpad* , *engakhethwa kusetshenziswa inkinobho ethi "Shintsha uhlu lwesiteshi "* (isithonjana: ) ekhiphedi.

Ifomethi yefayela nokuguqulwa

Amafayela agciniwe ngefomethi ye- *.ts* angadlalwa ngokuqondile futhi nge- *MPV* ku-*antiX* . Uma uthanda, ungasebenzisa i- *ffmpeg* ukuguqula okurekhodiwe kohlelo olugciniwe kusuka kufomethi ye- *.ts* kuya kwenye ifomethi yefayela . Ukuguqulwa ngesikhathi sokurekhoda kungenzeka kuphela kumasistimu anamandla kakhulu futhi ngakho-ke akuhloselwe i-aCSTV. Njengoba kungenakwenzeka futhi ukubikezela ukuthi iyiphi ifomethi isiteshi esizoyidlulisela, ukuhlolwa okuncane kuyadingeka lapho uguqula ngemva kwalokho. Uma ifomethi etholiwe ingahambisani nefomethi eqondiwe, ividiyo noma ukusakazwa kwedatha yomsindo equkethwe kuyo, noma kokubili, kufanele kubhalwe kabusha ngekhodi, ngaphandle kwalokho kwanele ukupakisha kabusha ingashintshile ngefomethi oyifunayo.

Izibonelo:

- ku- *Matroska* , ngaphandle kokufaka kabusha ikhodi
ffmpeg -i './filename.ts' -map 0 -c kopisha './filename.mkv'
- ku- *mp4* , ngaphandle kokufaka kabusha ikhodi
ffmpeg -i './filename.ts' -map 0 -c copy './filename.mp4'
- Uma ukusakazwa kwedatha okudluliselwa umsakazi futhi kulondolozwe kufayela le-*.ts* kungahambisani nefomethi eqondiwe ekhethiwe (isb . *mp4*), lokhu kuguqulwa ngeke kusebenze futhi kukhiqiza umlayezo wephutha

kuphela. Kulesi simo ividiyo ingabhalwa kabusha:

```
ffmpeg -i './filename.ts' -c:v libx264 -c:ikhophi './filename.mp4'
```

- Noma faka kabusha ividiyo nomsindo:

```
ffmpeg -i './filename.ts' -c:v libx264 -c:a aac './filename.mp4'
```

Kuye ngamandla okwenza ikhompuyutha e-PC, usayizi wefayela kanye nohlobo lokubhala kabusha ikhodi, ukucubungula kungathatha isikhathi.