

FTEN afb CAN binder status

04/04/2017
Yuichi Kusakabe
SS Engineering Group
Fujitsu TEN LIMITED

- FTEN creates the same CAN binder as IOT.BZT
- It does Not use OpenXC, and the original format(not good) ← IOT.BZT's selected OpenXC is better
- Multiple functions required for the product are all ready
 - CAN ID filtering(use SocketCAN ID filter)
 - CAN DATA Thinning out (**ms → 100ms)

	FTEN	IOT.BZH
CAN conversion	× (original)	○(OpenXC)
CAN ID filtering	○	×
CAN DATA Thinning out	○	×
Performance(CPU load)	2.16%	-
Source code	C	C++
Document	×	○

➤ Data used for measurement

➤ logtime = 1122 sec,

➤ CAN ID cnt = 129, datacnt = 1042673

➤ can load ave= 19.04%, min = 18.82%, max = 37.89%

➤ cyc ave[us] = 929, min = 8, max = 8565

➤ Support CAN ID 42, Thinning out time ** -> 100ms

	AMB(d-bus)		AFB (FTEN CAN)		AMB/AFB (vs)
	Process name	CPU load(%)	Process name	CPU load(%)	
Service	ambd	16.97	afb-daemon	1.34	17.4
	dbus-daemon	6.33			
Client(App)	AMBDBus_tp	4.26	afb-client-demo	0.82	5.2
CAN Sim	canplayer	2.36	canplayer	1.51	-
Total	*	30.65	*	3.67	8.3

FTEN contribute customization based on IOT.BZH source code

Thank you!!!

yuichi.kusakabe@jp.fujitsu.com