



Hackathon 2025

Data Files

barber-motorsports-park.zip

circuit-of-the-americas.zip

indianapolis.zip

road-america.zip

sebring.zip

sonoma.zip

virginia-international-raceway.zip

Track Maps

Barber Motorsports Park

Circuit of the Americas

Indianapolis

Additional Data Sources

Official Timing Results

- Series: SRO
- For 2025 season, find TGRNA GR CUP NORTH AMERICA
- For 2024 season, find Toyota GR Cup

Notes and known issues about telemetry and lap start/end/time files

meta_time: The time the message was received.

timestamp: The time on the electronic control unit (ECU) of the vehicle. The time on the ECU may not be accurate.

Vehicle identification: Example: For GR86-004-78, the chassis number is 004 and the car number is 78 (the sticker on the side of the car). If the car number is 000, it hasn't been assigned to the ECU yet. You can still uniquely identify a vehicle by its chassis number though. In a later race, you might see the car number updated.

lap: Sometimes the lap count is lost or erroneously reported (often as lap #32768). The time values should still be accurate, and the lap may be determined by it.

Vehicle Telemetry Parameters

Speed & Drivetrain



	Sebring
	Sonoma
	Virginia International Raceway

Sections/sectors on track maps correspond to "analysis with sections" files. Sections on the map are split up by red lines and the start/finish line. Each section is divided in two by the white line. S1.a, S1.b, S2.a, S2.b, S3.a, and S3.b respectively correspond to IM1a, IM1, IM2a, IM2, IM3a, and FL.

Gear	Current gear selection
nmot	Engine RPM
Throttle & Braking	
ath	Throttle blade position (0% = fully closed, 100% = wide open)
aps	Accelerator pedal position (0% = no acceleration, 100% = fully pressed)
pbrake_f	Front brake pressure (bar)
pbrake_r	Rear brake pressure (bar)
Acceleration & Steering	
accx_can	Forward/backward acceleration in G's (positive = accelerating, negative = braking)
accy_can	Lateral acceleration in G's (positive = left turn, negative = right turn)
Steering_Angle	Steering wheel angle in degrees (0 = straight, negative = counterclockwise, positive = clockwise)
Position & Lap Data	
VBOX_Long_Minutes	GPS longitude (degrees)
VBOX_Lat_Min	GPS latitude (degrees)
Laptrigger_lapdist_dls	Distance from start/finish line (meters)

