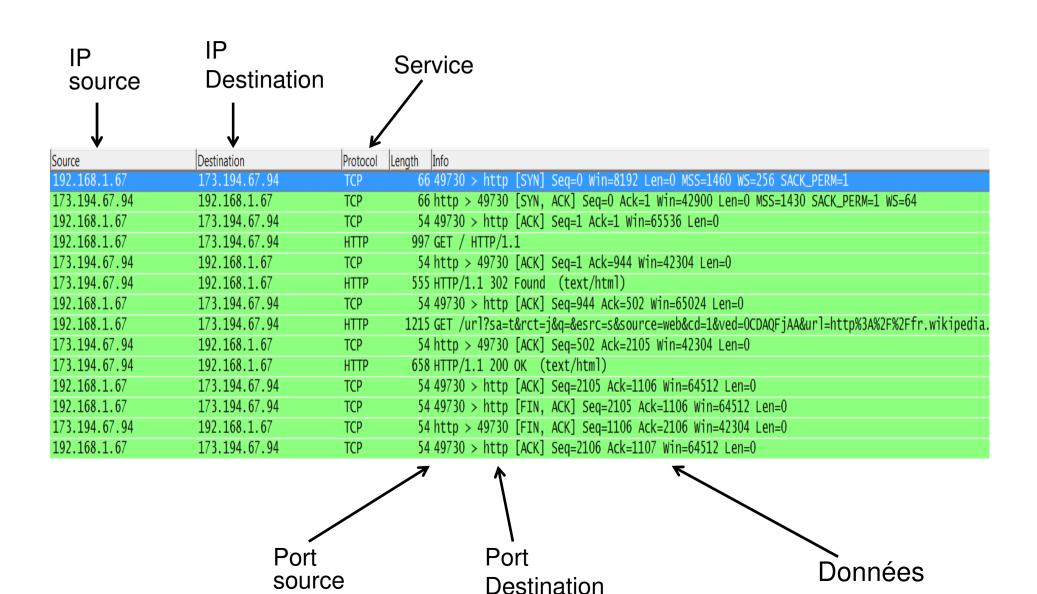
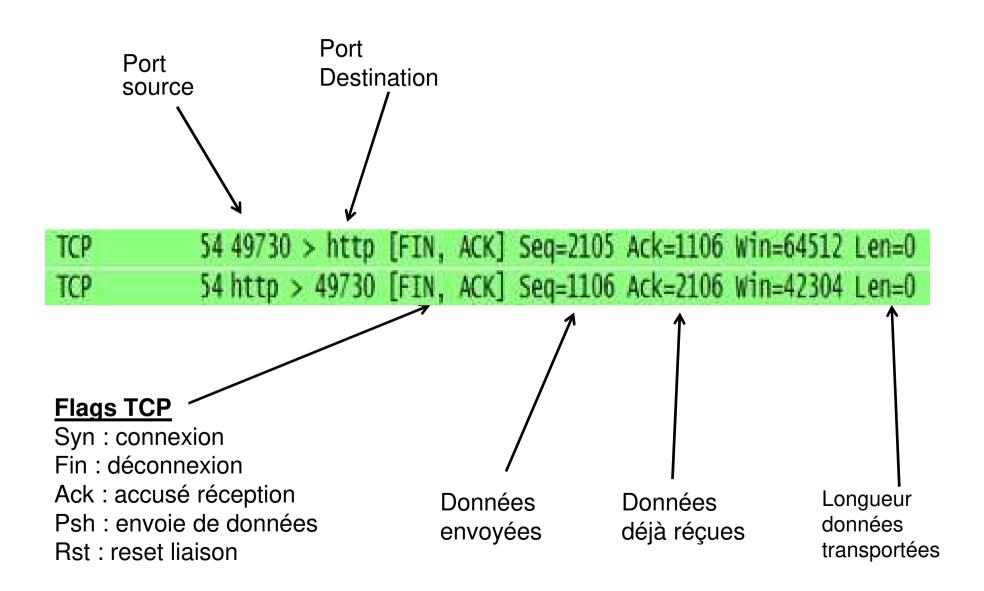
TD0 - Introduction

Analyse de trames TCP et autres protocoles avec Wireshark

Analyse de trames



Analyse de trames













AB



Applications **a** Outillage à main **G** 🌣 Méditerranée 8 jours 🌼 https://www.msccrois

sur la page d'accueil de votre TD-TCP BONJOUR ET BIENVENUS

Cliquez ici pour accéder au formulaire.

192.168.16.65	192.168.9.16	DNS	82 Standard query 0x2b6a A data1.ma-direction.com
212.27.63.105	192.168.16.65	TCP	66 80 → 49883 [SYN, ACK] Seq=0 Ack=1 Win=29200 Len=0 MSS=1369 SACK_PERM=1 WS=128
192.168.16.65	212.27.63.105	TCP	54 49883 > 80 [ACK] Seq=1 Ack=1 Win=65712 Len=0
192.168.16.65	212.27.63.105	HTTP	621 GET / HTTP/1.1
212.27.63.105	192.168.16.65	TCP	60 80 → 49883 [ACK] Seq=1 Ack=568 Win=30336 Len=0
212.27.63.105	192.168.16.65	HTTP	215 HTTP/1.1 304 Not Modified
192.168.16.65	212.27.63.105	TCP	54 49883 > 80 [ACK] Seq=568 Ack=163 Win=65548 Len=0
192.168.16.65	212.27.63.105	TCP	54 49883 → 80 [FIN, ACK] Seq=568 Ack=163 Win=65548 Len=0

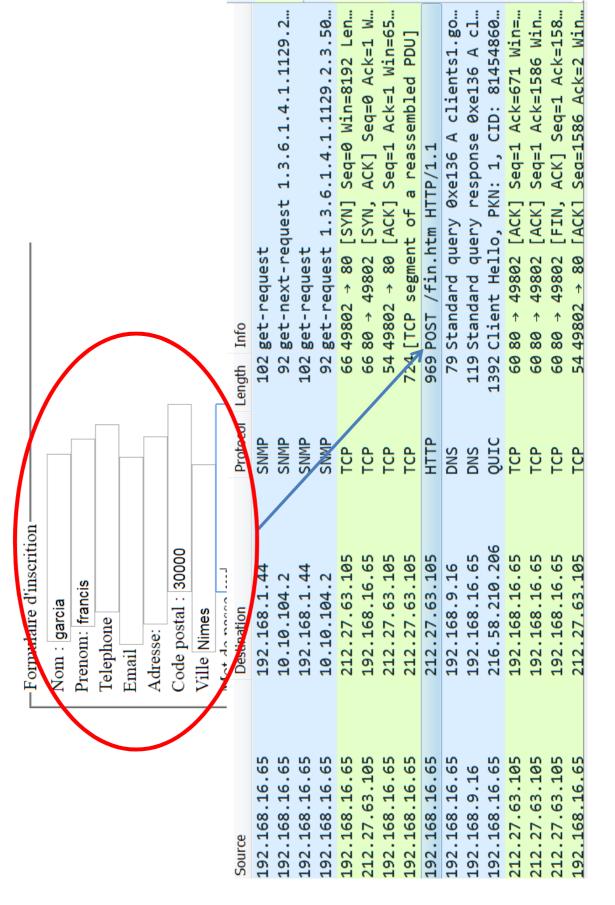
		F				th 7f.
0		alle	Source	Destination	Protocol	
-	49	49 5.466118	192.168.222.149	95.128.74.182	TCP	757 49309 → 80 [PSH, ACK] Seq=1 Ack=
4	29	50 5.466216	192.168.222.149	95.128.74.182	HTTP	1319 POST /mail-sender.php HTTP/1.1
	51	51 5.483194	95.128.74.182	192,168,222,149	TCP	60 80 → 49309 [ACK] Sea=1 Ack=704 N
■	ransm	Transmission Control	Protocol, Src Port:	49309, Dst Port: 80,	, Seq: 704,	Ack: 1, Len: 1265
	Sour	Source Port: 49309	ō			
	Dest	Destination Port: 80	80			
	[Str	[Stream index: 12				
	[TCF	[TCP Segment Len: 1265	1265]			
	Sequ	Sequence number: 704	(relative	sequence number)		
	[Ne	[Next sequence number: 1969		(relative sequence number)]	_	
	Ackr	Acknowledgment number: 1		(relative ack number)		
	9191	1 = Heade	0101 = Header Length: 20 bytes (5)			
•		Flags: 0x018 (PSH, ACK)	1, ACK)			
	0	000	= Reserved: Not set			
	•	6	= Nonce: Not set			
	•	6	= Congestion Window Reduced (CWR): Not	Reduced (CWR): Not s	set	
	•		= ECN-Echo: Not set			
	•		= Urgent: Not set			
	•	1	= Acknowledgment: Set	щ		
	•	1	= Push: Set			
	•		= Reset: Not set			
	•		= Syn: Not set			
	•	9	= Fin: Not set			
		TCP Flags:	AP1			
9229	65	64 43 69 74	22 0d 0a 0d 0a 0d	2d 2d eldCity"	•	
9239	5	2d 2d 57 65	4b 69 74 46 6f 72	42 6fWebK	itFormBo	
0240	75	6e 64 61 72 79 7	49 51 75 4d 42	42 34 undaryw9	IQuMBBB4	
9229	5 4	36 /3 4T 4/ 73 78 6f 73	74 69 6f 6e 3a	74 2d ruesud:	ion. for	
9279	8	64 61 74 61	20 6e 61 6d 65 3d	66 69 m-data;	name="fi	
				ı		

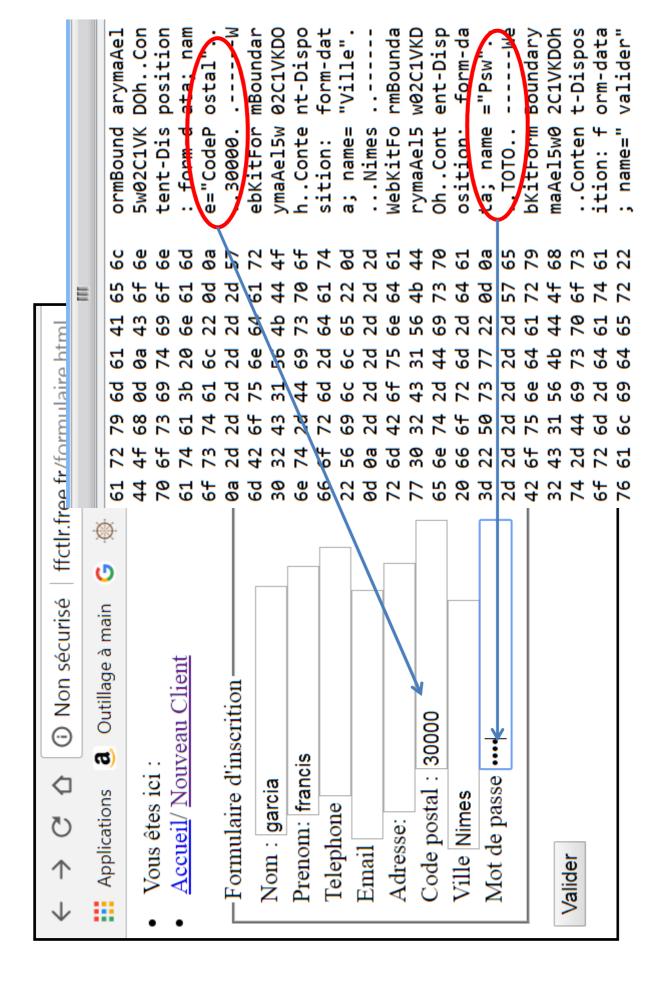
Manipulation amusante

134 7.94728400 192	.168.1.67	212.27	7.63.105	TCP		659 [TCP segment of a reasse
135 7.94734800 192			7.63.105	HTTP		1021 POST /fin.htm HTTP/1.1
136 7.99306200 77.1				TCP		54 https > 49798 [ACK] Seq
137 7 994575NN:212	27 63 10	5 192 16	88 1 67	TCP		54 httn > 49805 [ΔCK] Sen=1
	-					(0100 bits) int
	61		76 40 40	70 70	74.60	
TO 1 1 10 101		72 79 63 4f	76 49 4a	7a 7a 6f 6e	74 6c	mBoundar yvIJzztl vsolZHnc OConte
— Formulaire d'inscrition ———	70			6f 6e		
	61	74 61		61 6d		form-dat a; name=
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Nom: GARCIA	63			61 69		a.franci s@gmail.
_	- 2d			65 62		comWebKi
Prenom: Francis	6f	75 6e		79 76		
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Telephone 11111111	2d	44 69			74 69	
Telebiione Hillin	72				20 6e	
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Email garcia.francis@gmail.com	65 65	20 6c 62 4b	27 49 55		0a 2d	rue de l'IUT
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	73		2f 0d 0a	2d 2d	2d 2d	psw ./
	69	<u>74 46</u>	6† 72 6d	42 6f	75 6e	WebKit FormBoun



- Vous êtes ici :
- Accueil/ Nouveau Client





https://www.google.fr/search?source=hp&ei=WSrYW_yoD4_4aZ-zsMAK&q=lacentrale&oq=lacentrale&gs_l=psy-

Méditerranée 8 jours

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La Centrale, Creative Media Factory - Creative Factory

https://www.creativefactory.info/bureaux/la-centrale/ <

La Centrale est un hôtel d'entreprises créatives ouvert depuis avril 2016 dédié aux entrepreneurs dans le champ de l'image sous toutes ses formes.

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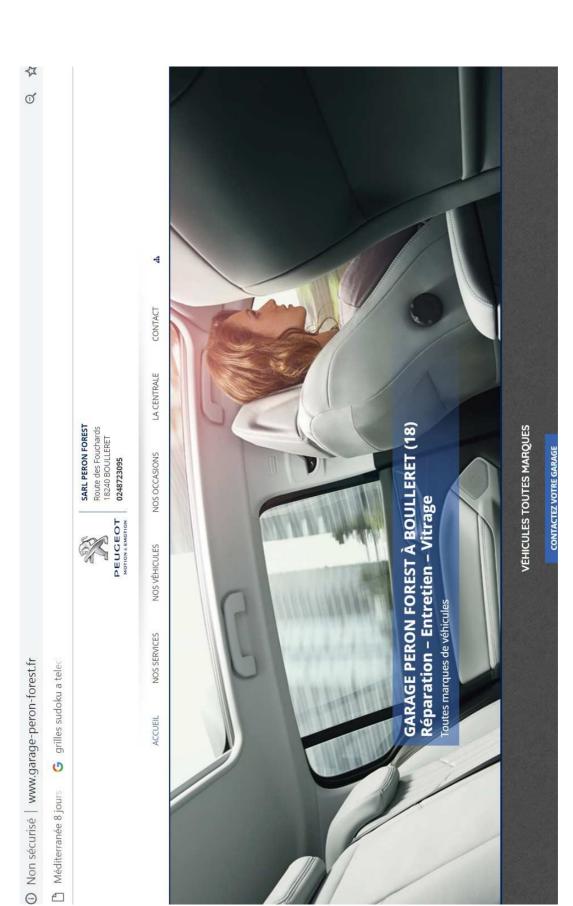
ABVV VOLVO SAINT OUEN L'AUMONE : Concessionnaire VOLVO ST ...

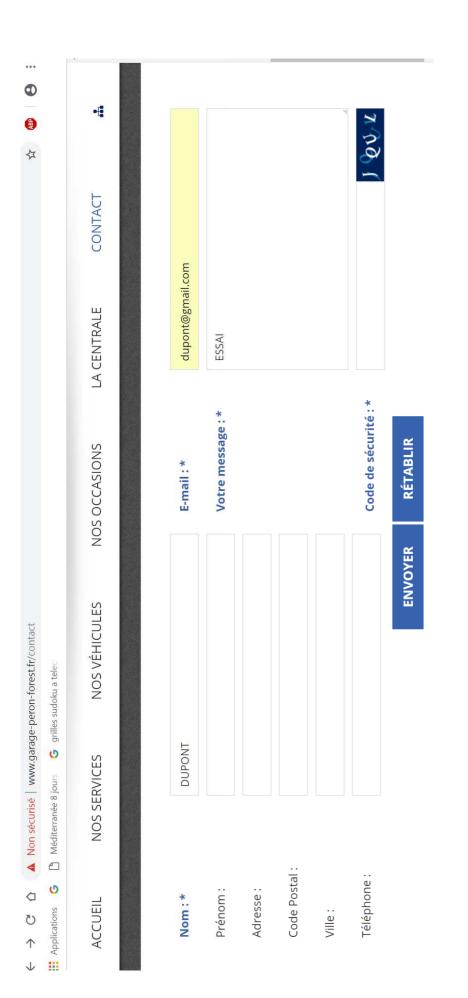
www.volvoabvvsoa.com/ ▼

Voir les véhicules d'occasion à ST OUEN L AUMONE chez ABVV VOLVO SAINT OUEN L'AUMONE -Un large choix de véhicules disponibles.

La centrale

≡ ੫	La	Central	e°				3										
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us n'avez pas pu être ider	ıtifié,		192.1	68.1	6.65		37	.252	.172	.80		Т	CP		54 49843 -	80 [F	IN, A
illez recommencer!			192.1	68.1	6.65		19	5.66	.82.	41		Т	CP		54 49834 -	80 [F	IN, A
il (particuliers) ou			192.1	68.1	6.65		52	.49.	74.2	13		Т	CP	1	423 [TCP se	gment	of a
érence client (professio	nnels)		192.1	68.1	6.65		52	.49.	74.2	13		Т	CP		323 [TCP se	gment	of a
rcia			192.1	.68.1	6.65		52	.49.	74.2	13			TTP		97 POST /	ompte_	ident
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••			195.6						8.16				CP \		60 [TCP Ke		
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Info	757 49309 → 80 [PSH, ACK] Seq=1 Ack=1	1319 POST /mail-sender.php HTTP/1.1	60 80 → 49309 [ACK] Sea=1 Ack=704 Win
Protocol Length Info	757	1319	99
Protocol	TCP	HTTP	TCP
Destination	95.128.74.182	95.128.74.182	192.168.222.149
Source	192.168.222.149	192.168.222.149	95.128.74.182
Time	49 5.466118	50 5.466216	51 5.483194
Ŷo.	4	<u></u>	5

| [Timestamps]

TCP payload (1265 bytes) TCP segment data (1265 bytes)

5 [2 Reassembled TCP Segments (1968 bytes): #49(703), #50(1265)]

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9(7	24	6 F	34	2	72	69	2	42	42	74	6 f	99	75	9a	8	42	6 e	99	22	8	65	79	47	73	. 61
#	24	42	42	74	6F	99	_ 8a	8	42	6 e	99	22	4	8	. 72	42	65	- 29	34	<u> </u>	57	. 72	4£	6F	7
<u>;;</u>	9 8	6	42	. 6e	99	22	<u>8</u>	. 72	42	65	29	34	_ 0a	В	. 6f	4	74	33	65	8	2 4	61	73	79	. 61
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	9 8	. 6f	4	74	3a	1 65	6	1 46	75	6e	6e	р 9	i 0a	63	74	51	3 6F	9 6F	61	74	1 2d	. 6e	5.51	69 1	д 7
(1968	8	1 46	75	6e	6e	- 6d	i 9a	74	51	3 6f	9 6F	61	99	. 2e	69	49	43	69 1	9 6e	. 6e	1 2d	75	1 46	4	6
디	1 0a	9 74	9 51	3 6f	9 6F	61	2 9d	69	9 49	43	t 69	9 6e	22	9 6	2 4b	7 39	1 0 a	74	29	1 65	1 2d	2 6f	2 34	t 2d	F 72
ış	8	69	49	43	69	6 e	22	4	33	9a	74	29	9	69	62	77	8	69	36	8	24	42	45	74	
Segments	22	4	33	9 a	74	20	65	62	77	8	69	8	69	61	65	79	47	73	61	8	<mark>0</mark> a	8	42	<u>8</u>	99
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b Le	1 43	1 2d	1 61	5 73	3 70	1 61	59	1 2d	64	1 36	73	49	64	74	1 2d	. 6e	5 51	69 t	1 2d	9 6	3 53	74	51	3 6f	9 6f
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Reassembled	65 6c	2d 2d	75 6e	46 51	44 69	6d 2d	65 6c	2d 2d	6f 75	34 46	2d 44	72 6d	69 65	70 6F	2d 2d	42 6f	42 34	74 2d	6f 72	69 99	0a 45	62 4b	77 39	9d 9a	69 74
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Anatomie d'une application clientserveur

```
Client.c (Couches 5-6-7)
sock = socket(AF INET, ...
if (connect(sock, ...
while(strcmp(mess,"fin")
 { printf("Entrez un ...
  scanf ("%s",&mess);
  write (sock,&mess,...
read (sock,&mess,80);
   printf("Reponse %s\n",...
close (sock);
```

```
Serveur.c (Couches 5-6-7)
sock = socket(AF_INET, ...
bind (...
listen(...
if((sock2=accept(sock, ...
{ while(strcmp(mess, "fin")!=0)
    read (sock2,&mess,80);
     scanf ("%s",&mess);
     write (sock2,&mess,...
    printf ("deconnexion ...
close(sock2);
```

```
Client.c (Couches 5-6-7)
sock = socket(AF INET, ...
if (connect(sock, ...
while(strcmp(mess,"fin")
 { printf("Entrez un ...
   scanf ("%s",&mess);
  write (sock,&mess,...
read (sock,&mess,80);
   printf("Reponse %s\n",...
close (sock);
```

Le serveur

En attente d un client client connecte le client me dit : coucou le client me dit : fin En attente d un client

```
Serveur.c (Couches 5-6-7)
sock = socket(AF INET, ...
bind (...
listen(...
if((sock2=accept(sock, ...
{ while(strcmp(mess, "fin")!=0)
    read (sock2,&mess,80);
     scanf ("%s",&mess);
     write (sock2,&mess,...
    printf ("deconnexion ...
close(sock2);
```

```
Le client
```

connexion avec serveur ok
Votre message : coucou
Le serveur me dit : message recu
Votre message : fin
Le serveur me dit : message recu

Source	Destination	Protocol	Protocol Length Info
127.0.0.1	127.0.0.1	TCP	76 56007 > italk [SYN] seq=0 Win=32792 Len=0 MSS=16396 SACK_PERM=1 TSval=62220 TSecr=0
127.0.0.1	127.0.0.1	TCP	76 italk > 56007 [SYN, ACK] seq=0 Ack=1 Win=32768 Len=0 MSS=16396 SACK_PERM=1 TSval=62
127.0.0.1	127.0.0.1	TCP	68 56007 > italk [ACK] Seq=1 Ack=1 Win=32896 Len=0 TSval=62220 TSecr=62220
127.0.0.1	127.0.0.1	TCP	148 56007 > italk [PSH, ACK] Seq=1 Ack=1 Win=32896 Len=80 TSval=62917 TSecr=62220
127.0.0.1	127.0.0.1	TCP	68 italk > 56007 [ACK] Seq=1 Ack=81 Win=32768 Len=0 TSval=62917 TSecr=62917
127.0.0.1	127.0.0.1	TCP	148 italk > 56007 [PSH, ACK] Seq=1 Ack=81 Win=32768 Len=80 TSval=62917 TSecr=62917
127.0.0.1	127.0.0.1	TCP	68 56007 > italk [ACK] Seq=81 Ack=81 Win=32896 Len=0 TSval=62917 TSecr=62917
127.0.0.1	127.0.0.1	TCP	148 56007 > italk [PSH, ACK] Seq=81 Ack=81 Win=32896 Len=80 TSval=63791 TSecr=62917
127.0.0.1	127.0.0.1	TCP	148 italk > 56007 [PSH, ACK] Seq=81 Ack=161 Win=32768 Len=80 TSval=63791 TSecr=63791
127.0.0.1	127.0.0.1	TCP	68 56007 > italk [ACK] seq=161 Ack=161 Win=32896 Len=0 Tsval=63791 Tsecr=63791
127.0.0.1	127.0.0.1	TCP	148 56007 > italk [PSH, ACK] seq=161 Ack=161 Win=32896 Len=80 TSval=64385 TSecr=63791
127.0.0.1	127.0.0.1	TCP	148 italk > 56007 [PSH, ACK] Seq=161 Ack=241 Win=32768 Len=80 TSval=64385 TSecr=64385
127.0.0.1	127.0.0.1	TCP	68 56007 > italk [ACK] seq=241 Ack=241 Win=32896 Len=0 Tsval=64385 Tsecr=64385
127.0.0.1	127.0.0.1	TCP	68 56007 > italk [FIN, ACK] seq=241 Ack=241 Win=32896 Len=0 Tsval=64385 Tsecr=64385
127.0.0.1	127.0.0.1	TCP	68 italk > 56007 [ACK] Seq=241 Ack=242 Win=32768 Len=0 TSval=64395 TSecr=64385

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0000	0010	0050	0030	0040	0020	0900	0020	0080	0600	

```
Client.c (Couches 5-6-7)
sock = socket(AF_INET, ...
if (connect(sock, ...
                                   Socket
                                                            Socket
while(strcmp(mess,"fin")
 { printf("Entrez un ...
  scanf ("%s",&mess);
  write (sock,&mess,...
                                     TCP
                                                              TCP
read (sock,&mess,80);
                                             INTERNET
  printf("Reponse %s\n",...
close (sock);
```

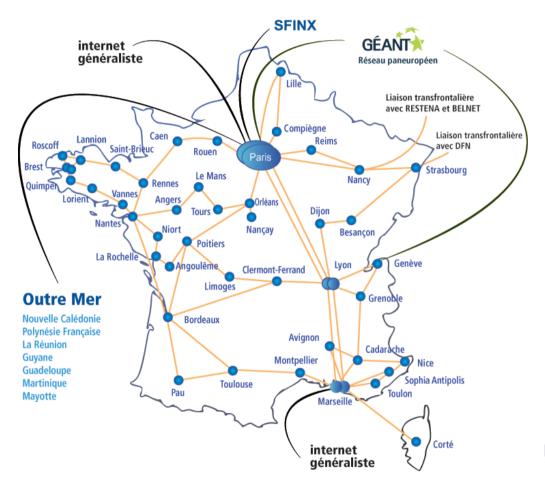
```
Serveur.c (Couches 5-6-7)
sock = socket(AF_INET, ...
bind (...
listen(...
if((sock2=accept(sock, ...
{ while(strcmp(mess, "fin")!=0)
    read (sock2,&mess,80);
     scanf ("%s",&mess);
     write (sock2,&mess,...
    printf ("deconnexion ...
close(sock2);
```

```
TCP
                                    TCP
                                                                             Serveur.c (Couches 5-6-7)
Client.c (Couches 5-6-7)
                                                              (Couche 4)
                                 (Couche 4)
                       56007 > italk [SYN] seq=0 Win=32792 Len=0
if (connect(sock, ...
                         italk > 56007 [syn, ACK] seq=0 Ack=1 win=32768
                                                                               if((sock2=accept(sock, ...
                             56007 > italk [ACK] Seq=1 Ack=1 Win=32896 Len=0
while(strcmp(mess,"fin")
                                                                             { while(strcmp(mess, "fin")!=0)
 { printf("Entrez un ...
  scanf ("%s",&mess);
  write (sock,&mess,56007 > italk [PSH, ACK] seq=1 Ack=1 Win=32896 Len=80
                             italk > 56007 [ACK] seq=1 Ack=81 Win=32768 Len=0
                                                                                 read (sock2,&mess,80);
                                                                                 scanf ("%s",&mess);
                                                                                 write (sock2,&mess,...
read (sock,&mess,80) italk > 56007 [PSH, ACK] seq=1 Ack=81 Win=32768 Len=80
                              56007 > italk [ACK] Seq=81 Ack=81 Win=32896 Len=0
                                                                                printf ("deconnexion ...
  printf("Reponse %s\n",..
close (sock);
                 56007 > italk [FIN, ACK] Seq=241 Ack=241 Win=32896 Len=0
                                                                             close(sock2);
                   (italk > 56007 [ACK] Seq=241 Ack=242 Win=32768 Len=0
```

Problème des écoutes

Renater





Couverture 12000Km de fibre 15 segment à 100 Gbit/s 130 segments à 10 Gbits/s Le réseau public



Câblage mondial

